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A System for Electronic Publishing

The present invention relates to an electronic publishing system, and in particular to an electronic publishing system for the delivery of information which is not limited as to storage space and is not governed by predetermined pathways

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BACKGROUND

Conventionally, information is published in document form as a printed publication, or in electronic form but again using the document or book metaphor. In the past, the concept of a "multidimensional space" in electronic publishing has been intuitively understood (that is, instinctively desired). However, a comprehensive display, discussion or treatment has been rejected by publishers and information providers as too difficult to develop and manage. Instead, publishers and information providers have managed large amounts of data

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(1) by limiting the size or coverage of the information space, and

(2) by setting or predetermining the path through that information space

The effect of this is clearest when the dimension of time is considered. The conventional approach to information storage and publishing is centred on the notion that information is either "current information" (ie, present day) or "historical information" (ie, the day before the present day and all days prior to that). Thus, information is traditionally retained (stored) and/or published (sold) as either current or historical information

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The effect of this has been to leave the end user with a collection of non-integrated repositories and many additional tasks to do before the information is useful to them. For example, the end user is required to

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(1) make most of their own connections between related pieces of information,

(2) do their own analysis of the type and subject of information they require or are seeking, and

(3) find information appropriate to the point in, or period of, time with which they are concerned

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To illustrate the disadvantages of conventional publishing systems, an example of using such conventional techniques and publishing systems to research information is provided. If a person were interested in information regarding the powers of the Secretary under Australian legislation with respect to couples in a family relationship, when and how the Secretary is restricted, and what did the relevant legislation provide prior to that, the person would refer to relevant legal information, which is the Social Security legislation of the Commonwealth of

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5 Australia The relevant provisions are set forth in Appendix A under the heading "Example Research" This would be determined by the end user's own knowledge of the broad subject and/or reference to secondary material

The relevant legislative provision is Section 4, which in conventional electronic legal publishing systems might be found by looking for words or phrases
10 such as "family", "family relationships", and "family relationships" AND "social security", where AND is a logical operator

Once the above is established, it can be seen from the information found that Section 4 of the Social Security Act, as at 9/8/96, has been amended ten times (see Appendix A *A1 AMENDMENTS TO SECTION AT 9/8/96*)

15 There is however nothing in the current Commonwealth Government Reprint, in either the electronic or print versions (see heading *EXAMPLE RESEARCH* of Appendix A), that allows the end user to see the text of those amendments or what part(s) of Section 4 were changed by them.

Thus, unless the end user is prepared to refer to many statute books, reading
20 each piece of text against another, the end user is not able to see easily or reliably what section 4 looked like before it was amended by any one of a number of prior amending Acts However, if the end user has a library complete enough to provide access to the prior amending Acts, the person would eventually determine that Act No 105 of 1995 is the relevant amending Act

25 Further, it should be noted that, while the Commonwealth Government Reprint indicates that the Social Security Act was amended by Act No 105 of 1995, it does not indicate what section or schedule in Act No 105 of 1995 actually amended Section 4 This again requires the end user to have access to the amending Acts themselves and renders the information provided by the Reprint as
30 to commencement (see Appendix A *B COMMENCEMENT INFORMATION FOR ACT NO 105 OF 1995 CONTAINED IN REPRINT*) of little utility without a copy of the amending Act No 105 of 1995 from which it can be established that Section 14 of Act No 105 amended Section 4 of the Social Security Act with respect to powers of the Commissioner (see Appendix A *D AMENDING ACT 1995 NO 105*
35 *AMENDING SECTION 14*)

Eventually, the required information can be found but several pieces of information need to be searched by the end user This is an arduous, time consuming, tedious and complex task that must be manually repeated for each research topic and if the same search is to be carried out again

40 Conventional publishing systems, including electronic publishing systems that typically are speeded-up, paper-based publishing systems, are based on a book-metaphor The smallest piece of information used by such conventional publishing

5 systems is either (I) an Act or Regulation (in the case of reprints, a whole Act or Regulation is printed again), or (II) a word. Typically, conventional publishing systems choose a word as the smallest piece when legislation is amended. To track such amendments, a lawyer or their assistant may actually use scissors to cut and paste pieces of legislation or the publisher cuts and pastes each word electronically. If a whole Act or Regulation is tracked as in (I) above, it is necessary to store each new version of an Act or Regulation in its entirety.

This has a number of consequences, including

- a) only a few versions of each Act or Regulation are stored,
- b) the end user rarely searches more than one reprint at a time,
- 15 c) it is very difficult to know which particular section or schedule has changed, to track how that particular section or schedule has changed, to find the relevant section of the Amending Act or Regulation that effected the section or schedule as shown in the reprint,
- d) if multiple changes have occurred on a particular section or schedule between reprints, the latest version of the section or schedule can only be seen in the reprint,
- e) issues like commencement of the latest version of a particular section or schedule and so-called "Application, Saving or Transitional Provisions" are difficult to recreate, and
- 25 f) it is difficult to come to a full understanding of the legislation by means of the reprints.

If every single word is tracked, as in (II) above, a level of complexity results that is difficult to administer and maintain without a large number of errors. For example, some legislative sections and schedules are amended several times annually.

Table 1 provides an example where Section 6 of the *Income Tax Assessment Act* has been amended 70 times

TABLE 1

35	S 6	am No 88, 1936, No 30, 1939, No 50, 1942,
		No 3, 1944, No 6, 1946, No 44, 1948, No
		48, 1950, No 1, 1953, No 65, 1957, No 55,
		1958, No 85, 1959, Nos 18 and 108, 1960, No
		17, 1961, No 69, 1963, No 110, 1964, No
40		103, 1965, No 85, 1967, Nos 4, 60 and 87,
		1968, No 93, 1969, No 54, 1971, Nos 51 and
		164, 1973, No 216, 1973 (as am by No 20,

5 1974), No 126, 1974, Nos 80 and 117, 1975,
Nos 50, 143 and 205, 1976, Nos 87 and 172,
1978, No 27, 1979, No 24, 1980, Nos 108 and
154, 1981, No 103, 1983, Nos 47 and 123,
1984, No 168, 1985, Nos 41, 48, 52 and 154,
10 1986, No 138, 1987, Nos 73, 97, 105 and 107,
1989, Nos 20, 35 and 135, 1990, Nos 4, 5,
100 and 216, 1991, Nos 80, 98 and 224, 1992,
Nos 17, 18, 57 and 82, 1993, Nos 138 and
181, 1994, Nos 5 and 169, 1995

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It is both difficult and impractical to store the complete amendment history of every word and phrase within section 6. Trying to track all changes on such a detailed level leads to unmanageable complexity.

Largely, the split between historical and present information has come about
20 because of the publishing and information industry's own development, and not because such is the desired or best way to manage information. Thus, a need clearly exists for an electronic publishing system that can overcome one or more of the disadvantages of conventional techniques and systems.

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SUMMARY

In accordance with a first aspect of the invention, there is provided a system for publishing electronic information, comprising

a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means, and, for each predefined portion, the each
30 predefined portion is stored and, where such predefined portion has been modified, each such modified predefined portion is stored, and

a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising the data.

In accordance with a second aspect of the invention, there is provided a
35 recording medium for publishing electronic information, comprising

a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means, and, for each predefined portion, the each predefined portion is stored and, where such predefined portion has been modified, each such modified predefined portion is stored, and

40 a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising the data.

- 5 In accordance with a third aspect of the invention, there is provided a method for publishing electronic information, comprising
- providing a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means; and, for each predefined portion, the each predefined portion is stored and, where such predefined portion
- 10 has been modified, each such modified predefined portion is stored, and
- providing a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising the data

BRIEF DESCRIPTION OF THE INVENTION

- 15 A small number of embodiments of the invention are described with reference to the drawings, in which
- Fig 1 illustrates a grid of a multidimensional space according to the first embodiment,
- Fig 2 illustrates the effect of the various axes,
- 20 Fig 3 illustrates the mapping of various axis intersection points, or nodes, that is used to organize, present, and find information (present and past) according to the first embodiment,
- Fig 4 illustrates the application of legal information to mapped nodes according to the first embodiment,
- 25 Fig 5 is a block diagram illustrating a general purpose computer that can be used to implement the electronic publishing system according to the first embodiment,
- Fig 6 is a flow diagram illustrating the method of electronic publishing according to the first embodiment, and
- 30 Figs 7 to 17 are screen shots illustrating operation of the first embodiment as a software application executing on a general purpose computer.

DETAILED DESCRIPTION

- The present invention is directed towards a system of electronic publishing
- 35 that can overcome the disadvantages of conventional information publishing, both in print and electronic form. The present invention reduces, if not eliminates, end user problems with conventional information publishing including
- (1) the connectivity between related pieces of information,
- (2) analysis of the type and subject of information, and
- 40 (3) finding information appropriate to the point in time with which they are concerned

5 Overview of Embodiments

The embodiments of the invention provide an entirely new way of delivering, storing and publishing information. The embodiments allow publishers to add an arbitrary number of logical connections to a set of data, and even permit the publisher to display the precise evolution of that data set over time. This can be
10 done without getting bogged down in the complexity of the logical connections and without limit as to storage space.

Frequently, people desire to have more "information" available. However, with the advent of the Internet and new technology, many people suffer from information overload. The embodiments of the invention provide an easy and
15 effective way to navigate large complex volumes of information.

Conventionally, information may only contain very rudimentary (i.e., haphazard hyperlinks) or non existent logical connections. Thus, conventional techniques of investigating how a set of data has evolved and changed over time can only be done for small data sets and are very expensive.

20 However, with the embodiments of the invention, it is possible to list all logical connections within a data set no matter how complex those connections may be. The embodiments of the invention and the principles of those embodiments described hereinafter can be applied to many different types of information such as medical, scientific, pharmaceutical, etc. For ease of description, however, the
25 embodiments are set forth in relation to legal information.

Conventionally, legislation is often purchased in two ways: (1) The individual Numbered Acts and Regulations that give each piece of legislation as it is passed; and (2) Consolidated legislation that provides the latest consolidated version.

30 In the embodiments of the invention, legislation is stored using every version of each Act or Regulation. The end user can search every version of any section, schedule, or provision. For example, the required version of a section is immediately available as is the opportunity to view every preceeding and subsequent version of the same section. Also, links are available to any relevant amending
35 legislation commencing that change, as well as the one that repealed it. Relevant Application, Saving or Transitional Provisions can also be easily accessed.

In this manner, it is possible to come to a full understanding of the legislation just by looking at the data provided through the embodiments of the invention. In contrast, using conventional techniques, it would have been
40 impossible or very hard, expensive and time consuming to do so.

Using conventional means, a person wishing to view a particular section of a particular Act (e.g., the Income Tax Assessment Act) as of a particular date

5 (e.g., 30th June 1996), a significant amount of work would be required to do so. The end user would need to track all Amendments since the last reprint of the legislation, which may take a long time and involve referring to many volumes. This may even possibly involve using scissors and paste to actually cut and replace words. Even to figure out which Acts amended a particular section and to trace
10 those commencement dates can be difficult, time consuming and trying. However, a piece of research that may have taken an experienced researcher days or even weeks can be accomplished in minutes using the embodiments of the invention.

The ability to move through information in time is outlined above. The embodiments of the invention also give additional flexibility and scope to the end
15 user. Further dimensions and interconnections may include type, jurisdiction, subject, depth. Some examples are:

1 Doing research on the subject evidence at depth confession for types Acts and Case for time period 12 months

2 Doing research on type cases within jurisdictions NSW and
20 Queensland subject murder and depth statutes dealing with subject

The ability to associate the relevance and interconnection contained within the information is highly advantageous to the end user.

A key aspect of the embodiments of the invention in successfully providing a multi-dimensional repository of information has been in deciding the "optimum
25 storage unit". In the past publishers have chosen to either store new versions of the entire Act (too big) or new versions of each and every change, in a method similar to red lining (too complex). The first aspect of the invention was to analyse the data and choose to store every version of every section or provision level of legislation.

30 Structured Generalised Markup Language (SGML) is a recognised way to mark up data. SGML allows logical structure to be added to a document (unlike HTML and word processors which only allow the addition of visual content). SGML alone is not enough to deal with text-based data that contains a highly complex logical structure. The complexity increases exponentially until the
35 complexity cannot be managed any more. Large legal publishers have stored their data in SGML, but those legal publishers that are successful in dealing with their SGML-based data have purposely kept their markup as simple as possible. When such publishers have tried to encode a complex structure on text-based data their costs of creating the data set and maintaining the data set simply went through the
40 roof, and it became impossible to maintain the integrity of the data set.

In contrast, the embodiments of the invention allow SGML data to be encoded with a much more complex structure whilst remaining manageable.

5 Alternatively, Extensible Markup Language (XML) may be used. For example,
with SGML it is possible to encode all 71 versions of Section 6 of the Australian
Federal Income Tax Assessment Act in a single file (that Act has about 6,000
sections) but this would be utterly unmanageable when applied to the 6,000 other
sections of the Income Tax Assessment Act. It becomes even more unmanageable if
10 anybody would try to use the above method on all the sections within all other Acts
and Regulations of the Commonwealth. A significant problem with using SGML,
even well executed SGML, is that it is possible to quickly get bogged down in
unmanageable levels of complexity. The embodiments of the invention have
overcome these problems.

15 Another key aspect of the invention is the use of database technologies in the
management of the SGML encoded techniques. Database technology provides a
large number of ready tools to deal with complex structured data. The
embodiments combine these technologies (SGML, XML and database technologies)
in an advantageous manner.

20 In the past, traditional publishers have been limited by the size and speed of
available storage systems. Only a limited amount can be reproduced in paper and
until recently hard disk costs prohibited the storing of multiple gigabytes of data,
for both publishers and clients alike.

The embodiments of the invention have the ability to look at situations from
25 a new and up-to-date view point and therefore come up with innovative conclusions
that can be radically different to processes employed in the past.

Thus, the embodiments of the invention provide a new computer publishing
system that changes the availability of electronic information from being merely
"speeded up paper" to being electronic information taking advantage of new
30 electronic media by providing users with enhanced functionality of data retrieval
and manipulation. The information included in the electronic format is of a
publishable standard, meets cost constraints and is able to be accessed under any
combination of dimensions from the multi-dimensional space (Acts, cases, time,
jurisdiction, subject). The publishing system facilitates continual updates to the data
35 contained in the databases, without any adverse effects on the operating capabilities
that make the publishing system unique. Due to the extra functionality, the
publishing system is also designed in such a way that it can still be made available
in as many different electronic media as possible, and all search functions are able
to operate in a time-efficient manner.

40 The embodiments of the invention organize, process and present
information in a way that is significantly different than conventional structures,
processes and presentation. They provide an information storage and publishing

5 system, and in particular, an information storage and publishing system that stores and manages large and comprehensive amounts of information (eg, legal information)

Publication data, being preferably legal information, is encoded using Standard Generalized Markup Language (SGML) or Extensible Markup Language (XML) which adds codes to the publication data and provides functionality to the data. The publication data is processed as a plurality of predefined portions, which in the case of legislation is preferably at the section, schedule level, or provision level. A hierarchy of divisions of the legislation may be implemented. For each of the predefined portions, the system stores a copy of the predefined portion and a modified predefined portion in the first database whenever it is changed. A second (relational) database is preferably provided that comprises plural attributes for managing the information of the first database, with each attribute being a point on an axis of a multidimensional space for organising the data for publication. Alternatively, a single repository of information may be practised as described with reference to the second embodiment.

The system enables the first database to be searched for one of the predefined portions of the publication data using attributes of the second database by following one or more pathways through the multidimensional space. The plurality of attributes are connected to by the plurality of links. Once the desired predefined portion is located, the predefined portions can be retrieved using the attributes to define a point in the multidimensional space.

Preferably, the system implements, inter alia, time-based legislation in which sections of legislation that have been amended are not discarded and replaced with the current provision only as of the publication date. Instead, each version of an amended section is retained in the first database. Thus, the systems according to the embodiments of the invention are particularly advantageous in that legal information is published so that a user can obtain such sections or provisions at a particular time point.

The embodiments advantageously divide information into "suitably" small pieces (or blocks) of text, each of which is a predefined portion of data, and add to each piece of text, either expressly or implicitly, a number of attributes (characteristics or descriptors). The suitability as to size of text pieces is determined by an analysis of the information and its naturally occurring structure based on knowledge of how the information is used and consumed by the end user.

This makes it possible to locate each piece or block of text at a particular point in a "multidimensional space" using as coordinates the attributes added to the

5 piece or block of text. Multidimensional space refers to an area not having boundaries and that is capable of, or involves, more than three dimensions.

Fig. 1 illustrates a multi-dimensional space 100 as used in embodiments of the invention. The multidimensional space is represented by a layered grid. The diagram represents axes or pathways as vertical and horizontal lines, in reality
10 (in the case of more than two dimensions), they are at all angles and inclines.

Referring to Fig. 2, the ability to locate (assign) or map each node 102 (or key intersection point of the various axes or pathways) is a significant functional aspect of the embodiments of the invention. This mapping is explained further hereinafter. With such coordinates 102 known (located or mapped), it is possible
15 to move easily between points in the multidimensional space 100.

The effect of mapping nodes as shown in Fig. 3 is that a course 320 through the information represented in the three-dimensional space 100 can be easily plotted. The user begins the course 320 at node 302 and progresses vertically downward to the fourth node 304. Further, the plotted course 320 is flexible to the
20 extent of the relationships a user chooses to follow or seek out.

First Embodiment

A first embodiment of the invention provides information management in the multidimensional space and allows movement along different axes or "pathways".
25 *location* of the information (its address),
type of information (its genesis),
jurisdiction (its class),
subject (its content description),
depth (extent of content), and
30 *time* (the point in time at which the information is viewed).

In the first embodiment, coding of information or data for publication is based on SGML or XML and one or more specifically developed Document Type Definitions (DTD), which preferably is specifically designed for legal information. Alternatively, in the case of XML, a Style Sheet Mechanism (SSM) may be used.
35 This coding can then be related back to information retained in a specifically developed database that enables the code information to be managed and updated. For a detailed description of this aspect of the invention, reference is made to Appendix C. The DTDs according to the first embodiment are set forth in detail in Appendix B. A DTD is used to define the structure of publication data, preferably
40 being legislation, down to a comprehensive level. This is done by using information coded in conjunction with any one of a number of off-the-shelf, free-

5 text retrieval software packages (eg, Folio Views or Dynatext) to deliver the information to the end user

A DTD describes the markup for the SGML publication data, or "repository", which may contain legislation, case law journal articles and other types of material that are stored in computer files. The files contain publication data in text form and the markup, which is extra information about the text included with the text. An example of a markup is '<BD+ >' which indicates that "the data from this point on is bold". A further example is '<SECTION ID="CWACT-19950104-SEC-1" LBL="1">'. This markup indicates that the data from this point on is part of a section of legislation, the section has an identifier of CWACT-19950104-SEC-1, and the section has a label of "1".

There are a number of different ways to add markup to data. The first embodiment adds markup to data using SGML. Alternatively, XML may be used. Still further, in the case of XML being used, an SSM may be used. Even within SGML, there are many ways to add markup to text. Each particular way of adding markup within SGML is described by using a DTD. In the first embodiment, the data for publication is marked up using a number of different DTDs. In particular, the DTDs are used to mark up the logical structure of the legislation, case law or journal articles. Significant amounts of information about the data for publication is stored in the markup. For example, the markup '<SECTION ID="CWACT-19950104-SEC-1" LBL="1">' provides the following information: the data is a piece of Commonwealth of Australia legislation (indicated by 'CW' at the beginning of the string), the section is part of an Act ('ACT' after 'CW') and not a regulation, the act is Act No 104 of 1995 ('19950104' in the middle of the string), the data is a Section ('SEC') within the Act, and it is Section 1 ('1' at the end).

The preparation of such DTDs necessitates that the author has a sound knowledge of the data that will be marked up using the DTD. It is especially important that the underlying structure of the data to be marked up using the DTD be understood. The process of becoming acquainted with the structure of the data to be marked up is referred to hereinafter as "content analysis".

In particular, the section-level or schedule-level portion of legislation is used in the first embodiment. That is, the section-level portion is preferably the predefined portion of the publication data, which is the smallest piece of information to be tracked. This is unlike conventional publishing systems. For example, with reference to Table 1, the first embodiment stores every version of Section 6. In this manner, complexity (tracking every word) is reduced by

- 5 increasing storage. However, unlike example (I) of conventional publishing systems, the first embodiment does not lose any pertinent information
- a) every version of each Act or Regulation is stored,
 - b) the end user can search every version of any section or schedule at the same time,
 - 10 c) it is easy to know which particular section or schedule has changed, to track how that particular section or schedule has changed, and to find the relevant section of the Amending Act or Regulation that affected the section or schedule,
 - d) if multiple changes have occurred on a particular section or schedule, every version of the section or schedule can be seen,
 - 15 e) issues like commencement of the latest version of a particular section or schedule and so-called "Application, Saving or Transitional Provisions" can easily be recreated,
 - f) it is possible to come to a full understanding of the legislation just by looking at the data provided through the first embodiment
- 20 A further advantage of tracking every version of each section or schedule is that it is possible to store some of the information, not in the markup, but in a database, as noted hereinbefore. This simplifies the updating process.
- While SGML is a powerful way of storing information, it is not a retrieval medium. Therefore, the stored information needs to be converted into a format that
- 25 the end user of the information can access. The first embodiment uses an electronic format for retrieval. For this electronic retrieval, a software application called 'high-end text retrieval software' is used. Examples of high-end, text-retrieval software applications include Folio Views and Dynatext. In the first embodiment, Folio Views is used.
- 30 Folio Views has its own proprietary markup language, which is not part of the SGML family. A complete guide to the Folio Views markup language is provided in the text Folio Views Infobase Production Kit Utilities Manual, Version 3.1, Provo, Utah: Folio Corporation (1 June 1994). Storing the data for publication in SGML allows other retrieval software applications besides Folio
- 35 Views to be used.
- In the first embodiment, a process is implemented to convert the SGML marked-up data into the format used by the retrieval software application. The example given for Folio Views hereinafter is but one example of the process involved. The conversion program basically maps the SGML markup to Folio
- 40 Views markup. For example, for the SGML markup '<SECTION ID="CWACT-19950104-SEC-1" LBL="1">', the conversion process marks all ID's

- 5 substantively unchanged as Jump Destinations (JD's) ' $\langle JD = "CWACT-19950104-SEC-1" \rangle$ '

A Keying Guide for Australian Legislation Documents with instructions for the conversion process to Folio Views added is provided in Appendix D

- 10 Movement through legal information can be as follows (the flexibility and scope is largely up to the end user)

(1) doing research on the *subject* of fences and boundaries at the *depth* fences that are hedges looking for *types* Acts and Regulations in *jurisdictions* NSW and Victoria for the *time* period last 20 years,

- 15 (2) doing research on the *subject* evidence at *depth* confession for *types* Acts and cases for *time* period last 12 months, or

(3) doing research on *type* cases with *jurisdictions* NSW and Queensland, *subject* murder and *depth* statutes dealing with subject

- 20 The application of legal information to mapped nodes is shown in Fig 4 However, this is only one of numerous possible applications. Information from medical, technical and scientific areas are all open to the application of this invention This diagram substitutes the technical terminology of Figure 3 with legal terms to show the way information appears according to the first embodiment Further, Fig 4 provides an example of how legal information is navigated by an end user The user may be seeking information on the following matters

- 25 (1) Does NSW legislation on fences presently cover hedge rows between the boundary of a private property and a public road?
 (2) If not, have such hedge rows ever come under NSW legislation?
 (3) Are there any cases under current law or previous law?
 (4) How have the cases been interpreted?

- 30 Some general assumptions are made about legal information for the purposes of this example Broadly, legal information has two main primary sources statute law (including subordinate legislation), and case law There is also secondary information such as commentary which can be added to aid interpretation Each of these sources is interconnected and relevant to the other in terms of both past and present information This may also apply to future information in terms of bills or other forms of uncommenced legislation It is the association of this relevance and interconnection that is advantageous to the end user

- 40 In Fig 4, the X-, Y-, and Z-axes indicate time (Time), the legislative provision (location), and type (eg. legislation=L, cases=C, and journal articles=J) To simplify the diagram, only three axes are illustrated, however, other axes may be included dependent upon the number of dimensions of the space In the first embodiment, the multidimensional space also includes another three

5 axes jurisdiction=U, subject=V and depth=W Thus, the space according to the first embodiment has six dimensions In the six-dimensional case, it is possible to move along each axis and at the points of intersection change direction, as well as find and/or follow new or additional information

10 The end user begins at legislation (L) along the Z-axis, where the *Fences and Boundaries Act* is located and then selects Section 1 of legislation (indicated by L allowing the Z-axis) at node 402, as of 1 January 1996 The user then follows a path in the legislation through nodes 404, 406 and 408 for Sections 2, 3 and 4, respectively, as of that same date (ie, the Y-axis), to find a definition of the term "fences" Node 408 contains Section 4 at 1 January 1996 which contains the
15 current definition of "fences" This would provide information in response to above query (1)

The user then selects Section 4 of the legislation as of 1 January 1995, which in this case is an earlier version of the section prior to amendment, by moving to node 410 (along the X-axis) This provides information about the prior law for
20 above query (2) The user can then move to other information on Section 4 as of 1 January 1995 by going to nodes 412 and 414 for case and journal article information, respectively, along the Z-axis For example, a case on the earlier Section 4 might be identified at node 412 and articles on interpretation of Section 4 at node 414 The foregoing is only one possible route through the multidimensional
25 space of information Other more complicated and interrelated pathways involving axes U, V and W are possible For example, the user can move to axis U (jurisdiction) and compare the definition in Section 4 of New South Wales with that in another jurisdiction (eg, Victoria)

Fig 6 is a flow diagram illustrating the method of electronic publishing
30 according to the first embodiment A data source 602, preferably for legal information, is provided In steps 604 and 606, base data and new data are input from the data source 602, respectively, and in step 608 the data is captured The DTDs 610 are input to step 612 The DTDs 610 include Act DTD, Acts DTD, Reg DTD, Regs DTD, and Common ELT, which are shown in detail in Appendix
35 B In step 612, the DTDs 610 are applied to the captured data from step 608 In step 614, the data is coded in SGML, including the Time Base Code In step 616, the data is consolidated As indicated in Fig 6, steps/items 602 to 616 comprise the (first) data conversion stage

A data management database 620 is provided to step 618 The database is
40 based on a master table and a textblock table (see Appendix C for further detail) The output of step 616 is also provided to step 618 In step 618, the data is consolidated, the data is stored as multiple versions, if applicable, and uses the

- 5 predefined portions of data (ie, textblocks) In step 622, a filter program(s) is applied to the consolidated data to convert the data from SGML to the relevant format for the retrieval software application, including Folio Views, DynaText, Topic, HTML, and the like Steps/item 618 to 622 comprise the (second) data management stage
- 10 The filtered data output by step 622 can then be provided to step 624 In step 624, the filter consolidated data is imported to the text retrieval software In step 626, the data is provided to the delivery medium, which may include CD-ROM, DVD, magnetic tape, electronic online services, and other media The output of this is the end user product 628 Steps/item 624 to 628 comprise the
- 15 (third) product manufacture stage
- The first embodiment is preferably practiced using a conventional general-purpose computer, such as the one shown in Fig 5, wherein processes for providing and managing the information are carried out using software executing on the computer In particular, the legislation database, the database and the DTD(s)
- 20 may be stored after a filtering process on a CD-ROM used by the computer system, and the computer system is operated using Folio View The computer system 500 includes a computer 502, a video display 516, and input devices 518 A number of output devices, including line printers, laser printers, plotters, and other reproduction devices, can be connected to the computer 502 Further, the computer
- 25 system 500 can be connected to one or more other computers using an appropriate communication channel such as a modem communications path, a computer network, or the like
- The computer 502 consists of a central processing unit 504 (simply, processor hereinafter), an input/output interface 508, a video interface 510, a
- 30 memory 506 which can include random access memory (RAM) and read-only memory (ROM), and one or more storage devices generally represented by a block 512 in Fig 5 The storage device(s) 512 can consist of one or more of the following a floppy disc, a hard disc drive, a magneto-optical disc drive, CD-ROM or any other of a number of non-volatile storage devices well known to those skilled
- 35 in the art Each of the components 504 to 512 is typically connected to one or more of the other devices via a bus 514 that in turn can consist of data, address, and control buses
- The video interface 510 is connected to the video display 516 and provides video signals from the computer 502 for display on the video display 516 User
- 40 input to operate the computer 502 can be provided by one or more input devices For example, a operator can use the keyboard 518 and/or a pointing device such as the mouse to provide input to the computer 502 Exemplary computers on which

5 the embodiment can be practiced include Macintosh personal computers, Sun SparcStations, and IBM-PC/ATs and compatibles

In an alternate embodiment of the invention, the computer system 500 can be connected in a networked environment by means of an appropriate communications channel. For example, a local area network could be accessed by means of an appropriate network adaptor (not shown) connected to the computer, or the Internet or an Intranet could be accessed by means of a modem connected to the I/O interface or an ISDN card connected to the computer 502 by the bus 514. In such a networked configuration, the electronic publishing system can be implemented partially on the user's computer 500 and a remote computer (not shown) coupled over the network. The legislation database, the database and the DTD(s) can be implemented on the remote computer and the computer system 500 can be operated using Folio View.

The operation of the first embodiment is described with reference to the screen shots shown in Figs. 7 to 17. All screen shots are derived from the first embodiment which uses Folio Views as the retrieval software. Broadly, Figs. 7 to 15 are screen shots illustrating navigation or movement around the information. Figs. 16 and 17 are screen shots that show search capacities.

Fig. 7 shows the opening screen 700, which the end user sees when the program is started. The interface is a standard windows interface featuring drop menus that provide access to all functions. The functions include basic searching and customised search templates such as the ones shown in Figs. 16 and 17 that allow users to exploit time-based and multidimensional searching.

The title screen 702 is presented when the process is commenced and is the first screen. A customisable toolbar 704 is provided for searching functions. Also, drop menus 706 are provided above the toolbar 704. In the lower portion of the screen 700 contains a status bar 708 showing information relevant to searching. The Start and Main menu buttons 710 in Fig. 7 are both navigational tools. The Start button takes a new user to information providing help on how to use the invention. The Main Menu button takes the end user to the menu shown in the second screen shot of Fig. 8.

Fig. 8 shows a main selection menu 800. At this menu 800, the user can see the currency of the total information. The user is also able to make broad choices as to the type of information that the person might like to see. All items preceded by bullet points in the menu are jump links 802 which lead the user to further menus for the items selected. The jump links 802 also provide a uniform or consistent form of movement. Thus, if searching the Social Security Act, selecting the first

- 5 jump link "Find an Act" takes the user to the next screen which would be the "Act Name Menu"

Fig 9 shows the "Act Name Menu" screen 900. In this menu 900, all letter buttons are links 904 to Acts beginning with the letter selected. That is, the jump links 904 allow access to sub-menus for Acts with the corresponding selected letter. If "S" is clicked, this leads to the "Acts beginning with S" menu (see Fig 10) where an entry linked to the most current version of the Social Security Act 1991 appears. A similar menu may be provided for Regulations. Further, locational information 902 is provided in the upper portion of the screen 900.

Fig 10 illustrates acts beginning with "S", as selected in the screen 900 of Fig 9. By selecting jump link 1002, the Social Security Act can be accessed. Likewise, other acts in this screen 1000 may be accessed using the respective jump link (e.g. Safety, Rehabilitation and Compensation Act).

Assuming the appropriate jump link 1002 is selected in Fig 10, Fig 11 shows how the beginning of the Social Security Act appears in screen 1100, and the buttons that link the user to the provisions of the Act. This is the start of the most current version of the Social Security Act preferably. From this screen, provisions of the Act can be accessed. By accessing the Table of Provisions box, the Table of Provisions menu can be accessed. Fig 12 shows the Table of Provisions screen 1200, and illustrates how a specific provision, say Section 4, can be accessed again using links 1206. Different sections of the Act (e.g. ss 3, 4 and 6A) may be accessed as well using corresponding jump links. Again, location information 1202 is provided in the upper portion of the screen. A return button 1204 is also provided that provides access back to the beginning of the Act.

Fig 13 shows screen 1300 containing the Time Base Toolbar 1302, which preferably provides eight buttons for accessing time based information. This Toolbar 1302 is not a feature of Folio Views, but is a designed addition added to Folio Views by the first embodiment. It is made possible by the way in which the publication data is coded. The Section Information button 1304 takes the user to an overview of information. The Previous, Next and All buttons 1306 allows the user to have access to the previous, next and all versions of the relevant section. The Subject, Jurisdiction and Related Info buttons 1308 allow the user to view and access sections dealing with a similar subject, or similar sections in other jurisdictions, or related information such as cases and articles on or about the section. This Toolbar 1302 allows a user to cycle through previous and subsequent versions of sections and as shown in screens in Figs 14 and 15 to refer to the text of sections amending the section. As well, the user can also call to the screen all versions of the section as one view (or display) using the "ALL" button.

- 5 Fig 14 illustrates a screen 1400 which appears when the user selects the
Section Information button 1402 (button 1304 in Fig 13) The resulting popup
screen illustrates the time period or date range 1404 covered by this version of
section 4 It also indicates the Year and Number jump link 1406 to text of the
amending act which created this version of section 4
- 10 Fig 15 illustrates a screen 1500 which appears when the user selects the
previous button 1502 (not shown - it is located behind the popup screen), which
corresponds to previous button 1306 of Fig 13 This shows an earlier version of
section 4 that the user can access by using the previous button 1502 The pop-up
screen indicates that this version covers a different time span than that shown in
- 15 Fig 14
- The screen shots in Figs 7 to 15 display a step-through or navigation-based
way of locating information There is also the more direct approach of searching
for terms using text retrieval The screen shots in Figs 16 and 17 illustrate such
searching provided by the first embodiment Screen 1600 shown in Fig 16
- 20 provides a customised search template 1602 that includes a time base option
allowing a user to search for versions of a section, for example Screen 1700
shown in Fig 17 illustrates a customised search template 1702 for case law which
includes a time base option connecting cases to legislation at a particular date, for
example Again, the ability to relate such to time and then to mix and match types
- 25 of information from different sources (jurisdictions) is a feature provided by the
coding technique used for the data and not the Folio Views software used to deliver
the data to the end user

Second Embodiment

- 30 The second embodiment stores all the information in a single repository
which is marked up in SGML or XML The information is divided in that
repository into suitable pieces or blocks of text (as described in the first
embodiment) and any relevant markup marks up a whole suitable piece or block of
text by (a) choosing suitable pieces or blocks of text, and (b) demanding that
- 35 relevant markup belongs to a whole suitable piece or block of text, the following
becomes possible A relational database consisting of records consisting of fields
can be created with one and only one record per suitable piece or block of text
where the actual text of each suitable piece or block of text is the content of one
field of the above record and where each item of the markup is assigned its own
- 40 field in the above record

For example, a version of Section 6 of the Income Tax Assessment Act
(ITAA) 1936 may be stored as a record in the above relational database The first

5 field of that record contains the actual text of that version of Section 6 The next
field identifies it as Section 6 of the ITAA, the next field gives the date this version
came into being, the next field contains the section of the amending act that created
this particular version, the next field contains the day this version became
superseded, another field contains the subject(s) this version addresses, another field
10 contains the case(s) that have addressed this version of section 6 and so on Storing
the data in this way allows multidimensional database techniques to be applied to
the data.

An XML DTD for implementing the second embodiment is set forth in
Appendix E It will be apparent to one skilled in the art that the second
15 embodiment may be readily implemented in view of the foregoing description of the
first embodiment, which is not repeated here for the purpose of brevity, and in view
of the accompanying DTD set out in Appendix E

The foregoing only describes a small number of embodiments of the
invention, and modifications and changes apparent to those skilled in the art can be
20 made thereto without departing from the scope and spirit of the invention For
example, the embodiments of the invention have been described with reference to
SGML The embodiments may alternatively be practiced with the extensible
markup language (XML) as well Also, the embodiments may alternatively be
practiced with a Style Sheet Mechanism (SSM) instead of, or in addition to, one or
25 more DTDs

5

APPENDIX A**Example Research**

SOCIAL SECURITY ACT 1991 No 48

Updated as at 9 August 1996

A 1 Amendments to Section at 9/8/96

- 10 S 4 am Nos 74, 116 and 194, 1991, No 81, 1992,
No 36, 1993, Nos 55, 63 and 184, 1994, Nos
104 and 105, 1995

A 2. Amendments to Section at 10/7/95

- 15 S 4 am Nos 74, 116 and 194, 1991, No 81,
1992, No 36, 1993, Nos 55, 63 and 184,
1994

B Commencement Information for Act No 105 of 1995 contained in Reprint

Social Security (Non Budget Measures) Legislation Amendment Act 1995

	Number	Year	Date of Assent	Commencement
20	105	1995	29 Sept 1995	Subdiv A of Div 2 of Part 2 (s 4) 1 July 1993 Ss 8 and 9 1 July 1995 S 10 1 Apr 1993 Div 5 of Part 2 (ss 12 and 13) 20 Sept 1994 (ze)
25				Ss 17 (c), (d) and 18 1 Jan 1996 Div 15 of Part 2 (s 37) 29 Nov 1993 Div 18 of Part 2 (ss 41-48) 20 Mar 1995
30				S 49 (a) 12 Mar 1992 S 49 (b) 1 July 1992 S 49 (c) 28 Jan 1993 S 49 (d) 1 Mar 1993 S 49 (e) 24 Dec 1993 S 49 (f) 1 Jan 1994
35				Remainder Royal Assent

C 1 Text of Section at 9/8/96

bold text indicates amendments made by NO 105 of 1995

SECT 4

- 40 Family relationships definitions-couples

4 (1) (1) In this Act, unless the contrary intention appears
"approved respite care" has the meaning given by subsection (9).

- 5 "armed services widow" means a woman who was the partner of
 (a) a person who was a veteran for the purposes of any provisions of the Veterans' Entitlements Act,
 or
 (b) a person who was a member of the forces for the purposes of Part IV of that Act, or
 (c) a person who was a member of a peacekeeping force for the purposes of Part IV of that Act,
- 10 immediately before the death of the person,
 "armed services widower" means a man who was the partner of
 (a) a person who was a veteran for the purposes of any provisions of the Veterans' Entitlements Act,
 or
 (b) a person who was a member of the Forces for the purposes of Part IV of that Act, or
 15 (c) a person who was a member of a Peacekeeping Force for the purposes of Part IV of that Act,
 immediately before the death of the person,
 "illness separated couple" has the meaning given by subsection (7),
 "member of a couple" has the meaning given by subsections (2), (3), (3A) [reference to new section
 added] and (8),
- 20 "partner", in relation to a person who is a member of a couple, means the other member of the couple,
 "partnered" has the meaning given by subsection (11),
 "partnered (partner getting benefit)" has the meaning given by subsection (11),
 "partnered (partner getting neither pension nor benefit)" has the meaning given by subsection (11),
 "partnered (partner getting pension)" has the meaning given by subsection (11),
- 25 "partnered (partner getting pension or benefit)" has the meaning given by subsection (11),
 "partnered (partner in gaol)" has the meaning given by subsection (11),
 "respite care couple" has the meaning given by subsection (8)
- Member of a couple-general
- 30 4 (2) Subject to subsection (3), a person is a member of a couple for the purposes of this Act if
 (a) the person is legally married to another person and is not, in the Secretary's opinion (formed as
 mentioned in subsection (3)), living separately and apart from the other person on a permanent or
 indefinite [Words added] basis, or
 (b) all of the following conditions are met
- 35 (i) the person has a relationship [Words is living replaced] with a person of the opposite
 sex (in this paragraph called the "partner")
 (ii) the person is not legally married to the partner,
 (iii) the relationship between the person and the partner is, in
 the Secretary's opinion (formed as mentioned in subsections (3) and (3A))[Words added], a marriage-
 40 like relationship,
 (iv) both the person and the partner are over the age of consent
 applicable in the State or Territory in which they live,

- 5 (v) the person and the partner are not within a prohibited relationship for the purposes of section 23B of the Marriage Act 1981
- Note a prohibited relationship for the purposes of section 23B of the Marriage Act 1981 is a relationship between a person and
- 10 an ancestor of the person, or
- a descendant of the person, or
- a brother or sister of the person (whether of the whole blood or the part-blood)

Member of a couple criteria for forming opinion about relationship

- 4 (3) In forming an opinion about the relationship between 2 people for the purposes of paragraph (2)
- 15 (a) or subparagraph (2) (b) (iii), the Secretary is to have regard to all the circumstances of the relationship including, in particular, the following matters
- (a) the financial aspects of the relationship, including
- (i) any joint ownership of real estate or other major assets and any joint liabilities, and
- 20 (ii) any significant pooling of financial resources especially in relation to major financial commitments, and
- (iii) any legal obligations owed by one person in respect of the other person, and
- (iv) the basis of any sharing of day-to-day household expenses,
- 25 (b) the nature of the household, including
- (i) any joint responsibility for providing care or support of children, and
- (ii) the living arrangements of the people, and
- (iii) the basis on which responsibility for housework is
- 30 distributed,
- (c) the social aspects of the relationship including
- (i) whether the people hold themselves out as married to each other; and
- (ii) the assessment of friends and regular associates of the
- 35 people about the nature of their relationship, and
- (iii) the basis on which the people make plans for, or engage in, joint social activities,
- (d) any sexual relationship between the people,
- (e) the nature of the people's commitment to each other, including
- 40 (i) the length of the relationship, and
- (ii) the nature of any companionship and emotional support that the people provide to each other; and

5 (iii) whether the people consider that the relationship is likely
to continue indefinitely, and

(iv) whether the people see their relationship as a
marriage-like relationship

4 (3A) The Secretary must not form the opinion that the relationship between a person and his
10 or her partner is a marriage-like relationship if the person is living separately and apart from the
partner on a permanent or indefinite basis. [Subsection added]

C 2. Text of Section at 10/7/95 prior

SECT 4

15 Family relationships definitions - couples

4 SECT 4

Family relationships definitions-couples

4 (1) In this Act, unless the contrary intention appears

"approved respite care" has the meaning given by subsection (9),

20 "armed services widow" means a woman who was the partner of

(a) a person who was a veteran for the purposes of any provisions of the Veterans' Entitlements Act,

or

(b) a person who was a member of the forces for the purposes of Part IV of that Act, or

(c) a person who was a member of a peacekeeping force for the purposes of Part IV of that Act,

25 immediately before the death of the person,

"armed services widower" means a man who was the partner of

(a) a person who was a veteran for the purposes of any provisions of the Veterans' Entitlements Act,

or

(b) a person who was a member of the Forces for the purposes of Part IV of that Act, or

30 (c) a person who was a member of a Peacekeeping Force for the purposes of Part IV of that Act,

immediately before the death of the person,

"illness separated couple" has the meaning given by subsection (7),

"member of a couple" has the meaning given by subsections (2), (3), and (8),

"partner", in relation to a person who is a member of a couple, means the other member of the couple,

35 "partnered" has the meaning given by subsection (11),

"partnered (partner getting benefit)" has the meaning given by subsection (11),

"partnered (partner getting neither pension nor benefit)" has the meaning given by subsection (11),

"partnered (partner getting pension)" has the meaning given by subsection (11),

"partnered (partner getting pension or benefit)" has the meaning given by subsection (11),

40 "partnered (partner in gaol)" has the meaning given by subsection (11),

"respite care couple" has the meaning given by subsection (8)

- 5 Member of a couple general
- 4 (2) Subject to subsection (3), a person is a member of a couple for the purposes of this Act if
- (a) the person is legally married to another person and is not, in the Secretary's opinion (formed as mentioned in subsection (3)), living separately and apart from the other person on a permanent basis, or
- 10 (b) all of the following conditions are met
- (i) the person with a person of the opposite sex (in this paragraph called the "partner"),
- (ii) the person is not legally married to the partner,
- (iii) the relationship between the person and the partner is, in
- 15 the Secretary's opinion (formed as mentioned in subsections (3)), a marriage-like relationship,
- (iv) both the person and the partner are over the age of consent applicable in the State or Territory in which they live,
- (v) the person and the partner are not within a prohibited relationship for the purposes of section 23B of the Marriage Act 1981
- 20 Note a prohibited relationship for the purposes of section 23B of the Marriage Act 1981 is a relationship between a person and
- an ancestor of the person, or
- a descendant of the person, or
- a brother or sister of the person (whether of the whole blood or the part blood)
- 25 Member of a couple-criteria for forming opinion about relationship
- 4 (3) In forming an opinion about the relationship between 2 people for the purposes of paragraph (2)
- (a) or subparagraph (2) (b) (ii), the Secretary is to have regard to all the circumstances of the relationship including, in particular, the following matters
- 30 (a) the financial aspects of the relationship, including
- (i) any joint ownership of real estate or other major assets and any joint liabilities, and
- (ii) any significant pooling of financial resources especially in relation to major financial commitments, and
- 35 (iii) any legal obligations owed by one person in respect of the other person, and
- (iv) the basis of any sharing of day-to-day household expenses,
- (b) the nature of the household including
- (i) any joint responsibility for providing care or support of
- 40 children, and
- (ii) the living arrangements of the people, and
- (iii) the basis on which responsibility for housework is

- 5 distributed,
- (c) the social aspects of the relationship, including
- (i) whether the people hold themselves out as married to each other, and
- (ii) the assessment of friends and regular associates of the
- 10 people about the nature of their relationship, and
- (iii) the basis on which the people make plans for, or engage in, joint social activities,
- (d) any sexual relationship between the people,
- (e) the nature of the people's commitment to each other, including
- 15 (i) the length of the relationship, and
- (ii) the nature of any companionship and emotional support that the people provide to each other, and
- (iii) whether the people consider that the relationship is likely to continue indefinitely, and
- 20 (iv) whether the people see their relationship as a marriage-like relationship

D Amending Act 1995 No 105 amending Section 14

SOCIAL SECURITY (NON BUDGET MEASURES) LEGISLATION AMENDMENT

- 25 ACT 1995 No 105
of 1995 - SECT 14
Family relationships definitions couples

SECT

- 30 14 Section 4 of the Principal Act is amended
- (a) by inserting in the definition of "member of a couple" in subsection (1) ", (3A)" after "(3)",
- (b) by inserting in paragraph (2)(a) "or indefinite" after "permanent",
- (c) by omitting from subparagraph (2)(b)(i) "is living" and substituting
- 35 "has a relationship",
- (d) by omitting from subparagraph (2)(b)(ii) "subsection (3)" and substituting "subsections (3) and (3A)",
- (e) by inserting after subsection (3)
- "(3A) The Secretary must not form the opinion that the relationship between
- 40 a person and his or her partner is a marriage-like relationship if the person is living separately and apart from the partner on a permanent or indefinite basis "

5

APPENDIX B

CODING - Document Type definitions (dtds)

10

ACT.DTD

```

<!-- *****
Document Type Definition for a set of acts
Typical invocation
<!DOCTYPE acts PUBLIC "-//SGMLSE//DTD 1 0 Acts//EN" >
15 Copyright Aunty Abha's Electronic Publishing Pty Ltd 1996, 1997
***** -->
<ENTITY % CONSOL "IGNORE">
<!-- ***** Include common element and entity definitions ***** -->
<ENTITY % common
20 PUBLIC "-//SGMLSE//ELEMENTS 2 0 Common Elements//EN" >
%common,
<!-- ***** End common element and entity definitions ***** -->
<ELEMENT acts -- (title, header?, act+)
>
25 <ENTITY % act PUBLIC "-//SGMLSE//DTD 1 0 Act//EN" >
%act,

```

ACTS.DTD

```

<!-- *****
30 Document Type Definition for a set of acts
Typical invocation
<!DOCTYPE acts PUBLIC "-//SGMLSE//DTD 1 0 Acts//EN" >
Copyright Aunty Abha's Electronic Publishing Pty Ltd 1996, 1997
***** -->
35 <ENTITY % CONSOL "IGNORE">
<!-- ***** Include common element and entity definitions ***** -->
<ENTITY % common
PUBLIC "-//SGMLSE//ELEMENTS 2 0 Common Elements//EN" >
40 %common,
<!-- ***** End common element and entity definitions ***** -->
<ELEMENT acts -- (title, header?, act+)

```

5 >
 <IDENTITY % act PUBLIC "-//SGMLSE//DTD 1 0 Act//EN" >
 %act,

10 **REG.DTD**

<!-- *****

Document Type Definition for a Regulation

Typical invocation .

<!DOCTYPE regact PUBLIC "-//SGMLSE//DTD 1.0 Regulation Act//EN" >

15 Copyright Aunty Abha's Electronic Publishing Pty Ltd 1996, 1997

REVISION History

190197 TH Since RULE, REG and SECTION are all equivalent, removed
 REG from this DTD

20 Added long-title

***** -->

<IELEMENT reg -- (title, notes?, provisions?, (preamble|long-title)?,
 ((order+|(section|schedule)+|chapter+|part+),schedule*))>

25 <!ATTLIST reg id ID #REQUIRED

date CDATA #IMPLIED -- used in numacts --

%status,

%subject,

>

30

REGS DTD

<!-- *****

Document Type Definition for a set of regulations

35 Typical invocation

<!DOCTYPE regs PUBLIC "-//SGMLSE//DTD 1 0 Regulations//EN" >

Copyright Aunty Abha's Electronic Publishing Pty Ltd 1996, 1997

REVISION History

40 *****

***** -->

5 <ENTITY % CONSOL "IGNORE">
 <ELEMENT regs -- (title, header?, reg+) >
 <!-- ***** Include common element and entity definitions ***** -->
 <ENTITY % common
 PUBLIC "-//SGMLSE//ELEMENTS 2 0 Common Elements//EN" >
 10 %common,
 <!-- ***** End common element and entity definitions ***** -->
 <ENTITY % reg PUBLIC "-//SGMLSE//DTD 1.0 Regulation//EN" >
 %reg,

15

COMMON ELT

<!-- *****

 Common element, attribute and entity definitions

 Typical invocation

 20 <ENTITY % common PUBLIC

 "-//SGMLSE//ELEMENTS 3 0 Common Elements//EN" >

 %common,

 VERSION 319 Jan 1997

 25 Copyright Aunty Abha's Electronic Publishing Pty Ltd 1996, 1997

REVISION History

141096 TH Added p* to definition of schedule

 30 151096 TH Added %reqid, %reqlbl, attributes to RULE, ORDER,

 DIVISION, SUB-DIVISION

 Added P+ and SUB+ to rule definition

 251096 TH Added status entity for amendment information

 291096 TH Changed definition for ORDER

 35 141196 TH Added <ALTERED> element

 261196 TH Too many changes to mention - Designated Version 2

 150197 TH Too many changes to mention -

 Designated Version 3

 190197 TH Changed contents of SECTION and SCHEDULE to (title,

 40 (%unstruct-cont,))

 TH Since RULE, REG and SECTION are all equivalent, renamed all to

 SECTION and added attribute TYPE to designate which type of section they are


```

5      TH      Added entity SUBJECT to allow each element to belong to 1 or more
      subjects
      TH      Added entity CONSOL which is invoked in the consolidation DTD
      using marked sections
      ***** -->
10 <!--
      ++++++
      ++++++ -->
      <!-- ISO Character Entity Set Declarations and references -->
      <!--
15 ++++++
      ++++++ -->
      <ENTITY % ISOnum PUBLIC "ISO 8879 1986//ENTITIES Numeric and
          Special Graphic//EN"
          >
      <ENTITY % ISOpub PUBLIC "ISO 8879 1986//ENTITIES
20 Publishing//EN"
          >
      <ENTITY % ISOtech PUBLIC "ISO 8879 1986//ENTITIES
          General Technical//EN"
          >
      <ENTITY % ISOlat1 PUBLIC "ISO 8879 1986//ENTITIES
          Added Latin 1//EN"
          >
25 <ENTITY % ISOgrk3 PUBLIC "ISO 8879 1986//ENTITIES
          Greek Symbols//EN"
          >
      %ISOnum,
      %ISOpub,
      %ISOtech,
30 %ISOlat1,
      %ISOgrk3,
      <!-- ***** End Character entities ***** -->
      <!-- ***** Parameter Entities ***** -->

35 <ENTITY % consol "">
      <![ %CONSOL [
      <ENTITY % consol "ca| NAMES #IMPLIED
          -- Creating amending act ID (IDs) --
          ea| NAMES #IMPLIED
40          -- Ending amending act ID (IDs) --
          "
      >

```

5]]>

 <ENTITY % status

 "insert-date NUMBER #IMPLIED -- insert date --
 insert-leg IDREF #IMPLIED -- link to the inserting legislation --
10 repeal-date NUMBER #IMPLIED -- repeal date --
 repeal-leg IDREF #IMPLIED -- link to the repealing legislation --
 amend-date NUMBER #IMPLIED -- amended date --
 amend-leg IDREF #IMPLIED -- link to the amending legislation --
 "

15 >

 <ENTITY % reqld "ld ID #REQUIRED"
 -- required ld --

 >

20 <ENTITY % reqlbl "lbl CDATA #REQUIRED"
 -- required label --

 >

 <ENTITY % emph "bold | ital"
25 -- emphasised text --

 >

 <ENTITY % refs "xref | rmgref | tempref | noteref"
 -- references --

 >

30 <ENTITY % inline "quote | lleqn | %emph, | %refs, | super | subscr"
 -- inline text elements --

 >

 <ENTITY % text "#PCDATA | %inline,"
 -- inline text elements plus character data --

35 >

 <ENTITY % ref-cont "#PCDATA"
 -- content of references --

 >

 <ENTITY % plevel "p | dpeqn | tblblk | list | blockquote | form"
40 -- paragraph level (block) elements --

 >

 <ENTITY % tblcon "p | dpeqn | list"

```

5  -- content of table cells --
  >

    <|ENTITY % para-cont      "(%plevel,)+"
      -- content of long-title or section level elements --
10  >

    <|ENTITY % unstruct-cont  "((%plevel,)|article|chapter|part|notes)*">

    <|ENTITY % subject        "subject      NAMES      #IMPLIED"
15  -- optional subject --
    >
    <!-- ***** End Parameter Entities ***** -->

    <!-- ***** Include Maths and Table elements ***** -->
20  <|ENTITY % atimath PUBLIC "-//SGMLSE//ELEMENTS Math Equation
    Structures//EN">
    %atimath,

25  <|ENTITY % atttbl PUBLIC "-//SGMLSE//ELEMENTS Table Structures//EN">
    %atttbl,

    <!-- ***** End Maths and Table elements ***** -->

30  <!-- Main elements -->

    <|ELEMENT part - - (title, (%plevel,)*, (chapter+[division+|section+)*, notes?)
    >
    <|ATTLIST part %reqid,
35      %reqtbl,
      %status,
      %subject,
      %consol,
    >
40  <|ELEMENT order - - (title, (division|section|part|schedule)+)
    -- In numregs --

```

```
5  >
    <|ATTLIST order %reqid,
        %reqlbl,
        %status,
        %subject,
10      %consol,
    >

    <|ELEMENT division - - (title, (sub-division+|section+))
    -- In numregs --
15  >
    <|ATTLIST division %reqid,
        %reqlbl,
        %status,
        %subject,
20      %consol,
    >

    <|ELEMENT sub-division - - (title, section+)
    -- In numregs --
25  >
    <|ATTLIST sub-division %reqid,
        %reqlbl,
        %status,
        %subject,
30      %consol,
    >

    <|ELEMENT chapter - - (title, (%plevel,)*, (part+|section+|article+)?)
    -- part+ and section+ for numacts --
35  >
    <|ATTLIST chapter %reqid,
        %reqlbl,
        %status,
        %subject,
40      %consol,
    >
```

```
5  <IELEMENT article - - (title, (%plevel)*, notes?)
   >
   <IATTLIST article %reqid,
           %reqlbl,
           %status,
10          %subject,
   >

   <IELEMENT section - - (title, (%unstruct-cont,))>
   <IATTLIST section
15     %reqid,
           %reqlbl,
           %status,
           astprov NAMES #IMPLIED
           type (section|rule|reg) section
20     %subject,
           %consol,
   >

   <IELEMENT schedule - - (title?, (%unstruct-cont,))
25   -- Schedule of an Act --
   >
   <IATTLIST schedule %reqid,
           %reqlbl,
           %status,
30     %subject,
           %consol,
   >

   <!-- ***** -->
35

   <IELEMENT provisions - - (title, tblblk+)>
       -- provisions --
   >
   <IATTLIST provisions
40     %subject,
   >
```

```
5  <IELEMENT form -- (title, formreg, front, back?)>
    <IATTLIST form %reqId,
        %reqIbl,
        %status,
        parastyle CDATA #IMPLIED
10    %subject,
    >

    <IELEMENT formreg -- (#PCDATA)
    -- Regulation --
15  >
    <IATTLIST formreg
        %subject,
    >

20  <IELEMENT front -- (asis)
    -- front of form --
    >
    <IATTLIST front
        %subject,
25  >

    <IELEMENT back -- (asis)
    -- back of form --
    >
30  <IATTLIST back
        %subject,
    >

    <IELEMENT asis -- (#PCDATA)
35  -- text as is --
    >
    <IATTLIST asis
        %subject,
    >
40  <|-- ***** Header elements *****-->
```

```
5  <IELEMENT header -- (scope?, updated?)>
    <IATTLIST header
        %subject,
    >

10 <IELEMENT scope -- (%text,)+>
    <IATTLIST scope
        %subject,
    >

15 <IELEMENT updated -- (%text,)+>
    <IATTLIST updated
        %subject,
    >

20 <IELEMENT notes - o (note+)>
    <IATTLIST notes
        %subject,
    >

25 <IELEMENT note -- (%plevel,)+
    >
    <IATTLIST note id ID #REQUIRED
        %subject,
    >

30 <!-- ***** End Header elements *****-->

    <!-- ***** structural elements *****-->

35 <IELEMENT title -- (%text,)+
    -- Genenc title --
    >

    <!-- ***** End structural elements *****-->

40 <!-- ***** plevel elements *****-->
```

```
5  <IELEMENT blockquote -- (%unstruct-cont,)+
    >
    <IATTLIST blockquote parastyle CDATA #IMPLIED
        %subject,
    >
10
    <IELEMENT p -- (%text,)+
        -- paragraph - a line of text terminated by a carriage return in
        the hardcopy --
    >
15  <IATTLIST p parastyle CDATA #IMPLIED
        %subject,
    >
    <IELEMENT list -- (li)+
    >
20  <IATTLIST list parastyle CDATA #IMPLIED
        %subject,
    >
    <IELEMENT li -- (p | blockquote | tblblk | list)+
        -- item in a list --
25  >
    <IATTLIST li lbl CDATA #REQUIRED
        %status,
        %subject,
    >
30  <IELEMENT tblblk -- (title?, (table|#PCDATA))
        -- table block --
    >
    <IATTLIST tblblk parastyle CDATA #IMPLIED
        %subject,
35  >
    <IELEMENT dpeq -- (fd)
        -- display equation --
    >
    <IATTLIST dpeq parastyle CDATA #IMPLIED>
40
    <!-- ***** End plevel elements ***** -->
```



```

5  <!-- ***** Inline elements ***** -->
    <IELEMENT xref    -- (%ref-cont,)+
        -- cross reference to a single target point --
    >
    <|ATTLIST xref    ref    IDREF    #REQUIRED
10 >
    <IELEMENT noteref  - O EMPTY
        -- cross reference to a note --
    >
    <|ATTLIST noteref  ref    IDREF    #REQUIRED
15 >
    <IELEMENT rngref   -- (%ref-cont,)+
        -- cross reference to a sequential range of target points --
    >
    <|ATTLIST rngref   startref  NAME    #REQUIRED
20      endref    NAME    #REQUIRED
    >
    <IELEMENT tempref  -- (%ref-cont,)+
        -- cross reference to a single target point where the idstring is unknown --
    >
25 <IELEMENT lleqn     -- (f)
        -- inline equation --
    >
    <IELEMENT super    -- (%text,)+ -(super,subscr)
        -- superscript --
30 >
    <IELEMENT subscr   -- (%text,)+ -(super,subscr)
        -- subscript --
    >
    <IELEMENT quote    -- (%text,)+
35 >
    <IELEMENT bold     -- (%text,)+ -(bold)
        -- text set in bold which is not a title or a label --
    >
    <IELEMENT ital     -- (%text,)+ -(ital)
40   -- text set in italic which is not a title or a label --
    >
    <IELEMENT altered - O EMPTY>

```

5 <IATTLIST altered by CDATA #REQUIRED>

<!-- ***** End inline elements ***** -->

<IELEMENT long-title - - (%para-cont,)>

<IELEMENT preamble - - (%para-cont,)>

10

CONSOL.DTD

<!-- *****

Document Type Definition for the consolidation

15 Typical Invocation

<!DOCTYPE consol PUBLIC "-//SGMLSE//DTD 1 0 Consolidation//EN" >

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REVISION History

20

***** -->

<IENTITY % CONSOL "INCLUDE">

<!-- ***** End common element and entity definitions ***** -->

<IELEMENT consol - - (act|reg)+

25

>

<!-- ***** Include common element and entity definitions ***** -->

<IENTITY % common

PUBLIC "-//SGMLSE//ELEMENTS 2 0 Common Elements//EN" >

%common,

30

<IENTITY % reg PUBLIC "-//SGMLSE//DTD 1 0 Regulation//EN" >

%reg,

<IENTITY % act PUBLIC "-//SGMLSE//DTD 1 0 Act//EN" >

%act,

5

APPENDIX C**Relational Database Specifications****TABLE OF CONTENTS**

10

Database Tables Entry Procedure**[A] GENERAL**

15

[A 01] Introduction**[A 02] General Purpose and Structure of the Database****[A 03] General Note about Dates Required for Fields in Database Tables****[B] MASTER TABLE**

20

[B 01] ID FIELD**[B 02] Date of Assent/Date of Notification Field****[B 03] Short Title Field****[B 04] Date of Commencement Field**

25

[B 4.1] Other forms of commencement or notification**[B 05] Date of Expiry Field****[B 06] Type Field****[B 07] Reprint No Field****[B 08] Reprint Date Field**

30

[C] TEXTBLOCK TABLE**[C 01] When the should it be used?****[C 02] ID Field**

35

[C 03] Textblock ID1**[C 04] Textblock ID2****[C 05] Date of Commencement Field****[C 06] Date of Expiry Field**

40

5 COMMONWEALTH PROJECT

CHAPTER XX - Database Tables Entry Procedure

[A] GENERAL

10 [A 01] Introduction

- This Chapter is divided into three topics,

[A] This General topic,

[B] The Master Table of the Data Base, and

[C] The Textblock Table of the Data Base

15 • All text like this in 10pt Arial font size is "explanatory text and notes" on the data base

- All text in Courier 9pt font size with a rule on the left hand side is the text used for examples, the text is taken from the Commonwealth data where possible to make it look like the real thing, however, some examples have been created for the purposes of explanation and do not exist in the data itself

20 • References in capitals to ACT(S) or REGULATION(S) are references to the whole Acts or Regulations. The word regulation when written with a lower case "r" will refer to a numbered regulation (eg regulation 2) Note: this does not apply to the text of examples which have been left as they appear in the data

- The word Section written with a capital "S" will refer to the numbered section of an ACT (eg Section 2) Note: this does not apply to the text of examples which have been left as they appear in the data

25 • The word Part written with a capital "P" will refer to the means of dividing an ACT known as a Part (eg Part 2 or Part II) Note: this does not apply to the text of examples which have been left as they appear in the data

- 30 • Note: the reference to Sections in Commonwealth ACTS and regulations in Commonwealth REGULATIONS is by way of the lowest piece of text first, eg 8(8)(a) would be written "paragraph 8(8)(a)" not "Section 8(8)(a)"

35 **Note:** Fields are out of database structure order in the examples because they appear at different places in the legislation to the structure used in the database tables

[A 02] General Purpose and Structure of the Database

Purpose

40 To provide a means of managing, monitoring and checking the content of the Commonwealth Legislation Consolidation

- 5 To allow the time based (versioning) capacity of the DTD and SGML coding being under taken to be realised

Basic Structure

The database is to consist of two tables

- 10 These Tables will be known as MASTER and TEXTBLOCK
The specific purpose of each Table will be as follows -
MASTER will focus on fields that collect data about an ACT or REGULATION as a whole
TEXTBLOCK will focus on specific sub-elements of the whole of an ACT or REGULATION

- 15 [A 03] General Note about Dates Required for Fields in Database Tables

Dates in the Database will be used primarily to identify two things

- the beginning of a whole or part of an ACT or REGULATION, or
- the end of the whole or part of an ACT or REGULATION

- 20 Entries for dates will all be in the dd/mm/yy formula

There are 3 ways dates will be appear in the legislation

- *specific* - are stated in the legislation itself (for example, Date of Assent)
- *to be advised* - are to be published or advised elsewhere (for example, proclaimed in

- 25 Gazette)

- *conditional* - are based on something else happening (for example, the commencement of another ACT or REGULATION, the creation of or termination of an organisation, the happening of an event)

- 30 **[B] MASTER TABLE**

[B 01] ID FIELD

This is the most important field in the database as it ties all the remaining fields and their information together

- 35

For the example used here, that is, the Social Security Act this will be **Act-19910048**

This is arrived at by combining,

- 40 (i) the *type of legislation*, in this case an ACT - see **(a)** below, then
(ii) the *year of enactment/creation*, in this case 1991 - see **(b)** below, and finally,
(iii) the *ACT'S Number* - see **(c)** below

5

All three parts of the ID are important Inputting the right type, that is, Act for ACTS and Reg for REGULATION etc , and the right year and number is critical as only the correct combination of all three will give the required accuracy

- 10 In the ID field the year and number are separated by a hyphen Also four digits must be used for the year number, thus 0046 and not 46 is used for the ACT'S number in this example

An important point to note is that it is possible for an ACT or REGULATION to be known as say the Federal Law Act 1996 but to be Act No 2 of 1997, so that its ID then will be

- 15 Act-19970002

\$3#

\$3T

- 20 SOCIAL SECURITY (a)ACT 1991

- Updated as at 10 July 1995

\$3T

- 25 •1• The Social Security Act 1991 as shown in this reprint comprises Act No. (c)46, (b)1991 amended as indicated in the Tables below <

[B 02] Date of Assent/Date of Notification Field

This will appear in different places according to the style and type of information

- 30 For ACTS use the Table of Acts at the column Date of Assent The entry for Act No 46,1991 being the entry for the principal ACT, that is the Social Security Act, is the place to look and the second column shows the date of assent as 23 Apr 1991(see (d) below)

Table of Acts<

- 35
- | Act
Number and
year | Date
of assent | Date of
commencement | Application<
saving or<
transitional<
provisions< |
|---------------------------|-------------------|-------------------------|--|
|---------------------------|-------------------|-------------------------|--|

Social Security Act 1991<

- 40 46, 1991 (d)23 Apr 1991 1 July 1991<

For REGULATIONS use the Table of Statutory Rules at the column Date of Notification

- 5 The entry for REGULATION No 36,1990 being the entry for the principal REGULATIONS, that is the Cash Transactions Reports Regulations, is the place to look and the second column shows the date of notification as 27 Feb 1990 (see (e) below)

- 10 *1* The Cash Transaction Reports Regulations (in force under the Cash Transaction Reports Act 1988) as shown in this reprint comprise Statutory Rules 1990 No. 36 amended as indicated in the Tables below

Table of Statutory Rules

| 15 | Year and
number | Date of
notification
in Gazette | Date of
commencement | Application,
saving or
transitional
provisions |
|----|--------------------|---------------------------------------|-------------------------|---|
| 20 | 1990 No 36 (e) | 27 Feb 1990 | 27 Feb 1990 | |

[B 03] Short Title Field

This usually appears in Section 1 of an ACT or regulation 1 of a REGULATION

- 25 This is the best place to take the name from as it is the legislated/official way that the ACT, REGULATION etc, is to be referred to etc See (f) below

The name should be entered in full (no abbreviations)

- 30 You should include the year even though it is part of the ID and also the words ACT or REGULATION This will firstly, provide a cross check as normally these should match It will also indicate those ACTS or REGULATIONS where the Short Title Year is different to the Year and Number in the ID field

- 35 \$SA
\$ST
SOCIAL SECURITY ACT 1991 - SECT 1<
Short title

\$ST

40 \$\$NSECT

1 This Act may be cited as the (f) Social Security Act 1991 *1*

\$\$\$

5

[B 04] Date of Commencement Field

This information usually appears in Section 2 for an ACT and regulation 2 for a REGULATION.

- 10 This is the best place to take the date of commencement from as here it is part of the legislation/the law and therefore always correct (even if its wrong). If taken from the Table of Acts or Table of Regulations an error would not be correct even if not made by us because technically, Tables, Title Pages and even side/margin notes are not considered part of legislation.

15

See (g) below for an example

```

20  | $ST
    | SOCIAL SECURITY ACT 1991 - SECT 2<
    | Commencement
    |
    | $ST
    |
    | $$NSECT
25  | 2 This Act commences on (g) 1 July 1991
    | $$A
    | $ST
  
```

[B 04.1] Other forms of commencement or notification

- 30 The example given at (g) above is a simple form of commencement in that one date is stated in Section 2

There are other forms of commencement as follows -

- 35 • ACTS or REGULATIONS where no date of commencement is specified enacted on or before 31/12/1937 (that is, there is no Section 2 and no other section dealing with commencement) commence on the day on which the ACT was assented to for ACTS (for example, the Acts Interpretation Act 1901 assented to on 12/7/1901) These Acts require no entry in the MASTER TABLE as the Date of Commencement and Date of Assent are the same
- 40

- 5 • ACTS or REGULATIONS where no date of commencement is specified enacted on or after 1/1/1938 (that is, there is no Section 2 and no other section dealing with commencement) than the Act by default commences on 28th day after the Date of Assent. These Acts do require an entry in the MASTER TABLE as the Date of Commencement and Date of Assent are not the same
- 10 • ACTS or REGULATIONS where various Parts, Sections, regulations etc, commence on different dates or on dates to be proclaimed or notified in Gazette
- 15 • ACTS or REGULATIONS where various Parts, Sections, regulations etc, commence the commencement of another ACT, REGULATION or Part or Section of another ACT or REGULATION etc
- 20 Note: With respect to the calculation of time (as for example, in the case of commencement 28 days after assent) Section 36 of the Acts Interpretation Act affects how this is done
Section 36 provides
- 25 • Where in an ACT any period of time, dating from a given day, act, or event, is prescribed or allowed for any purpose, the time shall, unless the contrary intention appears, be reckoned exclusive of such day or of the day of such act or event
- 30 • Where the last day of any period prescribed or allowed by an ACT for the doing of anything falls on a Saturday, on a Sunday or on a day which is a public holiday or a bank holiday in the place in which the thing is to be or may be done, the thing may be done on the first day following which is not a Saturday, a Sunday or a public holiday or bank holiday in that place

The above will be handled in Australia with respect of those ACTS or REGULATIONS to which this applies

35 [B 05] Date of Expiry Field

This is the opposite of commencement, that is, it indicates when the whole of an ACT or REGULATION or some Part, Section or regulation in an ACT or REGULATION ceases to have effect

- 40 Note: because the expiry is provided for in the ACT or REGULATION itself, this is different to a repeal. The effect is however, the same

- 5 Sections or Regulations relevant to this field are headed "Sunset clause" or "Sunset provision"
see (h) below

Note: the use of the words "unless sooner repealed" in the examples below. This means
entries will need to be checked or reviewed to ensure that ACT or REGULATION has not
10 been sooner repealed

The date or timing of expiry is indicated/expressed in a few different ways
by a specific date, see (i) below
by a period of years, see (j) below

15

- Examples of expiry of the whole ACT by a specific date

20 AUSTRALIAN MEAT AND LIVE-STOCK (QUOTAS) ACT 1990 - Updated as
at 18 July 1995

..

SECT 9

Sunset clause (h)

25 9 This Act, unless sooner repealed, shall cease to be in force at
the (i)end of 30 June 1998

Note the example above uses the words "cease to be in force" and the one below the words
"ceases to have effect" The result is still the same for our purpose

30 MEAT AND LIVE -STOCK INDUSTRY ACT 1995 No. 67 of 1995 -
Assented to 30 June 1995

...

SECT 227

Sunset clause

35 227 This Act, unless sooner repealed, ceases to have effect
at the end of 30 June 1998

- Example of expiry of Part, Division, Subdivision or Section of ACT after a specified
40 period of years

NATIVE TITLE ACT 1993

5 Updated as at 30 June 1995
... ..
SECT 207
Sunset provision
207. This Part ceases to be in force at the ()end of 5 years
10 after the Parliamentary Joint Committee is first appointed.

• Examples of expiry of a portion of a REGULATION

FEDERAL COURT RULES
15 Updated as at 22 March 1996
... ..
ORDER 75 NATIVE TITLE RULES
NATIVE TITLE ACT 1993
... ..
20 ORDER 75
RULE 21
Sunset provision
21 Order 75 ceases to be in force on 1 March 1997

25 MIGRATION (1993) REGULATIONS - Updated as at 25 July 1994
... ..
REG 2A
10A
Sunset provision
30 2A 10A No application may be made under this Division on or
after 1 July 1993

[B 06] Type Field

35 This Field provides more specific information about the type of legislation
It is different to the ID Field described above which gives the legislation a unique ID
This Field uses three single character codes to describe the legislation
These are as follows

40 P = *Principal* ACTS or REGULATIONS
It indicates that this is the main or Principal ACT or REGULATION
OR In other words the ACT or REGULATION which gets amended

5

Principal ACTS or REGULATIONS can be either in existence (enacted in previous years) or newly enacted (created in the current year)

10

There is nothing specifically unique or different in a principal ACT or REGULATION that makes it easy to identify. By elimination it is however, possible to say what is not a Principal ACT or REGULATION. This is done by looking at the ACT or REGULATION'S title

15

Information. Amending Acts or Regulations (which are dealt with next) usually contain the word's "Amending", "Amendment", "Repeal" or "Statute Law Revision" in their Short Title. Another indicator in the case of ACTS is that the Long Title will also contain the word's "Amending", "Amendment", "Repeal" or "Statute Law Revision" (REGULATIONS however, do not have a Long Title)

20

The example marked (K) and (J) below shows the Long and Short Titles for a Principal Act known as the Trade Practices Act. (Compare these examples with the ones marked (L) and (M) below)

25

LONG TITLE(K)

An Act relating to certain Trade Practices

PART I-PRELIMINARY

SECT 1

Short title(J)

30

1 This Act may be cited as the Trade Practices Act 1974.*1*

SEE NOTES TO FIRST ARTICLE OF THIS CHAPTER

35

Note: A principal ACT or REGULATION can contain amendments to other ACTS or REGULATIONS. It therefore, still needs to be considered for its effect on other ACTS

A = Amending ACTS or REGULATIONS

It indicates that this is a changing or Amending ACT or REGULATION

OR In other words the ACT or REGULATION which does the amending

40

Amending ACTS or REGULATIONS will not generally exist in their own right in the consolidated information for which we are creating the data base. The changes they effect will nearly always become part of the Principal ACT or REGULATION

- 5 There are some rare exceptions to the above point however, which will need to be identified -
(the way to do this most effectively will be to identify them in Australia and provide a list or
table of what these ACTS and REGULATIONS are)

As already stated the best ways to identify an Amending ACT or REGULATION are:

10

Amending ACTS or REGULATIONS will nearly always contain the word's "Amending",
"Amendment", "Repeal" or "Statute Law Revision" in their Short Title

15

For Acts (but not Regulations) there is also a Long Title at the very beginning of the Act
(usually before Section 1) which will also contain the word's "Amending" "Amendment",
"Repeal" or "Statute Law Revision"

20

The example marked (L) and (M) below shows the Long and Short Titles for the Amending
ACT known as the Trade Practices (Secondary Boycotts) Amendment Act 1979

25

LONG TITLE(L)

An Act to amend the Trade Practices Act 1974 with respect
Secondary Boycotts and other industrial practices.

30

PART I-PRELIMINARY

SECT 1

Short title(M)

1 This Act may be cited as the Trade Practices (Secondary
Boycotts) Amendment Act 1979 *1*

SEE NOTES TO FIRST ARTICLE OF THIS CHAPTER

35

Note. An Amending ACT or REGULATION can be amended itself by a further
amending ACT or REGULATION

More Examples of Amending ACTS and REGULATIONS

Following are some more examples of Amending ACTS and REGULATIONS and
what to look for

40

Statute Law Revision Acts

Below are two examples of these Usually, this is clean up legislation which makes
many changes and often effects a larger number of ACTS They can be specific as

- 5 in the case of the Decimal Currency example or they can be general as in the case of the 1973 example

They can both change (amend Parts, Divisions and Sections of ACTS and REGULATIONS) and/or delete (repeal) whole ACTS and REGULATION or Parts, Divisions and Sections

10

Statute Law Revision (Decimal Currency) Act 1966

Statute Law Revision Act 1973

There are other form of Amending ACT similar to the Statute Law Revision Acts as follows

15

A C T Self-Government (Consequential Provisions) Regulations
1989 No 3

Defence Legislation Amendment Act 1984

Fringe Benefits Tax (Miscellaneous Provisions) Act 1986

20

Statute Law (Miscellaneous Provisions) Act (No 1) 1986

Taxation Laws Amendment Act (No 3) 1986

The above can usually be spotted by the use of words such as "Consequential Provisions" "Laws Amendment", "Legislation Amendment", "Miscellaneous Provisions" in their Short Titles

25

Repeal Acts

Below are two examples of these One where the term Legislation is used in the title indicating that more many ACTS are being repealed Again this is often clean up legislation which repeals many ACTS whose purpose or reason for being has lapsed Alternatively, as the second example indicates Repeal ACTS can be specific, effecting the repeal of only one ACT

30

Egg Export Legislation Repeal Act 1984

35

National Welfare Fund Repeal Act

N = Not known

Indicates that the type of the ACT or REGULATION is not known or cannot be determined

These records will the be handled in Australia

40

[B 07] Reprint No Field

- 5 The information required for this field does not appear in the Commonwealth Data as presently supplied to/held by us. It will need initially to be obtained in the form of a list of existing reprints and their numbers and be added to both the Commonwealth data and the data base as a once only job. It will then need to be maintained on a monthly basis using the two AGPS Pamphlet Publications known as ACTS TABLES for Acts and STATUTORY RULES TABLES for Regulations, the last page in each contains this information for the current year. **Note:** where the Pamphlets are not available or the reprint number is not known or unavailable then the number 999 should be used to indicate this.

- 15 Each of the two tables from the Pamphlets contains the name of the Reprinted ACT or REGULATION in alphabetical order (but see Statutory Rules example below) followed by the date of reprint, then followed by the words "Reprint No " and a number. It is this last number that needs to be entered.

ACTS TABLE entry example

- 20 *National Health Act 1935* (20 September 1996) Reprint No 5

STATUTORY RULES TABLE entry example

- 25 **Note:** Statutory Rules are listed by their parent Act (the Act under which they are made appearing in *italic* as shown in the example below)

Banks (Shareholdings) Act 1972 --

Banks (Shareholdings) Regulations (2 August 1995) Reprint No 2

- 30 [B 08] Reprint Date Field

- Like the Reprint Number discussed in [B 07] above the information required for this field does not appear in the Commonwealth Data as presently supplied to/held by us. It too will need initially to be obtained in the form of a list of existing reprints and be added to both the Commonwealth data and the data base as a once only job. It will then need to be maintained on a monthly basis using the two AGPS Pamphlet Publications known as ACTS TABLES for ACTS and STATUTORY RULES TABLES for Regulations, the last page in each contains this information for the current year.

- 40 Each of the two tables contains the name of the Reprinted ACT or REGULATION in alphabetical order (but see Statutory Rules example below) followed by the date of reprint, then followed by the words "Reprint No " and a number.

- 5 For this field it is the Date preceding the Reprint Number that needs to be entered
For examples see the examples at [B 07] above

Note Again where the Pamphlets are not available or the reprint date is not known or unavailable then the date 00/00/00 should be used to indicate this

10

[C] TEXTBLOCK TABLE

[C 01] When should it be used?

- TEXTBLOCK entries will not normally be required for ACTS or REGULATIONS which are
15 either Principal or Reprinted ACTS or REGULATIONS But note that in the case of Principal ACTS there are exceptions, namely, where the Principal ACT or REGULATION also amends or repeals other ACTS or REGULATIONS

[C 02] ID FIELD

- 20 This field simply repeats the information obtained in [B 01] above Its purpose is to link this Table with the MASTER TABLE by way of the same ID For the example, in [B 01] for the Social Security Act the ID was Act-19910046 This ID would be repeated in this field

[C 03] Textblock ID1

- 25 This field is for the ID of the specific Part, Section or regulation in an Amending ACT or REGULATION that causes a change (amendment) to happen

Textblock ID2 (see [C 04] below) on the other hand records the ID of the specific Part, Section or regulation in an Amending Act or Regulation that is changed (amended)

30

EXAMPLE 1

Following is an example of an amendment to the Social Security Act which shows how the information required for this field is obtained

- 35 Please note there are several ways in which Amending ACTS and REGULATIONS are presented However, the information required for this ID field is present in all cases This first example shows the things to look for and the next example show some of the variations possible

- 40 (N) The first thing required is an indication as to type The example is an Amending Act
(O) The second thing required is the relevant year In the example this is 1995
(P) The third thing required is the Act or Reg Number In this example this is 104

- 5 (Q) The fourth thing required is the specific Part, Section or regulation doing the amending. In this example this is SCH1 (ie Schedule 1)

The ID entry for this example would then be as follows

ACT-19950104-SCH-1

10

SOCIAL SECURITY LEGISLATION (N)AMENDMENT ACT (No 1) (O)1995 No (P)104 of 1995 -

15

(Q)SCHEDULE 1

Section 4<

AMENDMENT OF THE SOCIAL SECURITY ACT 1991 RELATING TO<

THE DEFINITION OF INCOME<

1 After Paragraph 8(8)(zf) <

Insert <

"(zfa) a payment of financial supplement made to the person<

20

under the Student Financial Supplement Scheme," <

EXAMPLE 2

This example shows a different style of amendment to Example 1

The ID entry for this example would be as follows ACT-19950105-SEC-4

25

It would be made up of the following

(R) Indication of Amending Act (This would be Reg if we were dealing with a Regulation)

(S) Year of Act is 1995

(T) Act or Reg Number is 105

30

(U) Specific Part, Section or regulation doing the amending is SEC4 Note there is no reference to a Schedule (SCH) because Section 4 is doing the amending

35

SOCIAL SECURITY (NON-BUDGET MEASURES) LEGISLATION (R)AMENDMENT ACT (S)1995 No (T)105 of 1995

\$\$NSECT

(U)4 Section 198 of the Principal Act is amended by inserting after subsection (1A)

\$\$\$P

40

<

"(1B) Subject to subsection (1C), if:<

- 5 (a) a person (the 'carer') is personally providing constant care for a severely handicapped person; and
- (b) the handicapped person is temporarily absent from Australia for a period of not more than 3 months; and
- 10 (c) the carer accompanies the handicapped person on his or her absence from Australia; <
- the carer does not cease to be qualified for a carer pension merely because of that absence from Australia
- \$\$\$
- <
- 15 "(1C) If, during a calendar year, the carer has accompanied the handicapped person outside Australia on more than one occasion, the carer ceases to be qualified for carer pension under subsection (1B) in that calendar year after he or she has, during that calendar year, qualified for carer pension under that subsection for periods that together add up to 3
- 20 months "
- \$\$\$

[C 04] Textblock ID2

- This field is for the ID of the specific Part, Section or regulation in an Amending ACT or
- 25 REGULATION that is changed (amended)

Textblock ID1 (see [C 03] above) on the other hand records the ID of the specific Part, Section or regulation in an Amending ACT or REGULATION that causes a change (amendment) to happen

30

EXAMPLE 1

Following is an example of an amendment to the Social Security Act which shows how the information required for this field is obtained

- 35 *Please note*, as with Textblock ID1, there are several ways in which Amending ACTS and REGULATIONS are presented. However, the information required for this ID field is present in all cases. This first example shows the things to look for and the next example shows some of the variations possible
- 40 (V) Again the first thing is an indication as to type. The example is an Amending Act
- (W) The second thing required is the relevant year. In the example this is 1991
- (X) The third thing required is the Act or Reg Number. In this example this is 46

- 5 (Y) The fourth thing required is the specific Part, Section or Regulation that is being amended. In this example this is SEC8

The ID entry for this example would then be as follows

ACT-19910046-SEC-8

10

SOCIAL SECURITY LEGISLATION AMENDMENT ACT (No 1) 1995 No. 104 of 1995 -

SCHEDULE 1

Section 4<

AMENDMENT OF THE SOCIAL SECURITY (V)ACT (W)1991

15

(X) [If not available/reproduced in the Amendment text can be obtained from the main ID field in MASTER TABLE]

RELATING TO<

THE DEFINITION OF INCOME<

1 After Paragraph (Y)8(8) (zf) :<

20

Insert :<

"(zfa) a payment of financial supplement made to the person<

under the Student Financial Supplement Scheme;" <

25 EXAMPLE 2

This example shows a different style of amendment to Example 1

The ID entry for this example would be as follows ACT-19950105-SEC-198

It would be made up of the following

- 30 (Z) Indication of Amending ACT (This would be Reg if we were dealing with a REGULATION)

(AA) Year of ACT is 1991

(BB) The third thing required is the ACT or REGULATION Number

In this example this is 46

- 35 (CC) Specific Part, Section or regulation being amended is SEC198

SOCIAL SECURITY (NON-BUDGET MEASURES) LEGISLATION AMENDMENT ACT 1995 No 105 of 1995

40

(Z) (AA) (BB) [If not available/reproduced in the Amendment text can be obtained from the main ID field in MASTER TABLE]

\$\$\$N\$ECT

5 4 Section (CC)198 of the Principal Act is amended by inserting after
 subsection (1A):
 §§P
 <
 10 "(1B) Subject to subsection (1C), if:
 (a) a person (the 'carer') is personally providing constant care for a
 severely handicapped person; and
 (b) the handicapped person is temporarily absent from Australia for a
 period of not more than 3 months; and
 (c) the carer accompanies the handicapped person on his or her absence
 15 from Australia;
 the carer does not cease to be qualified for a carer pension merely because
 of that absence from Australia
 §§P
 <
 20 "(1C) If, during a calendar year, the carer has accompanied the
 handicapped person outside Australia on more than one occasion, the carer
 ceases to be qualified for carer pension under subsection (1B) in that
 calendar year after he or she has, during that calendar year, qualified for
 carer pension under that subsection for periods that together add up to 3
 25 months "
 §§A

[C 05] Date of Commencement Field

This field is for the date an amendment or repeal of a specific Part, Section or regulation
 30 commenced See also [B 04] for information on commencement

EXAMPLE

Below is an example of a commencement provision from an amending ACT Note how various
 sections of the amending ACT are allocated a date of commencement Using the Section
 35 identified in TEXTBLOCK ID1 the date of commencement can be identified and entered in this
 field

Thus if the TEXTBLOCK ID1 field were ACT-19950105-SEC-8 then the date information
 required for this field would be 1 July 1995 See (DD) below

40

SOCIAL SECURITY (NON-BUDGET MEASURES) LEGISLATION AMENDMENT ACT 1995 No 105
 of 1995 - SECT 2<

5 Commencement<
\$ST
\$N\$ECT
10 2 (1) Subject to this section, this Act commences on the day on which it
receives the Royal Assent
\$SP
<
(2) Subdivision A of Division 2 of Part 2 is taken to have commenced on 1
15 July 1993
\$SP
<
(3) Sections 8 and 9 are taken to have commenced on (DD)1 July 1995
\$SP
20 <
(4) Section 10 is taken to have commenced on 1 April 1993
\$SP

[C 06] Date of Expiry Field
25 This field provides for amendments that are enacted for a period of time, for example, during a
special event such as the Olympics

Note: Expiry provisions are rare and should only be added if clearly specified in the data as in
the example below

30
EXAMPLE
See (EE) below

35 OLYMPIC SECURITY (NON-BUDGET MEASURES) LEGISLATION AMENDMENT ACT 1997 No
109 of 1995
\$N\$ECT
4 Section 298 of the Principal Act is amended for the period commencing at
midnight on 1 July 1997 and ending on midnight (EE)25 July 1997 by inserting
40 after subsection (2A)
\$SP
<

- 5 " (1B) Subject to subsection (2C), if:
- (a) a person (the 'carer') is personally providing constant care for a severely handicapped person; and
- (b) the handicapped person is temporarily absent from Australia for a period of not more than 3 months; and
- 10 (c) the carer accompanies the handicapped person on his or her absence from Australia;
- the carer does not cease to be qualified for a carer pension merely because of that absence from Australia.
- \$9P
- 15 <
- " (2C) If, during a calendar year, the carer has accompanied the handicapped person outside Australia on more than one occasion, the carer ceases to be qualified for carer pension under subsection (1B) in that calendar year after he or she has, during that calendar year, qualified for
- 20 carer pension under that subsection for periods that together add up to 3 months "
- \$9A

5

APPENDIX D

Keying Guide for Australian Legislation Documents

10 General Validation

All files produced must be parsed against the relevant DTD and each table should be viewed using a suitable Table renderer to make sure that they have been coded correctly

15 DTD modifications

No local modifications must be made to the supplied DTD's. If there are any situations in which it is thought that a change to a DTD is required then the requested change and the reasons for it must be submitted to SGMLSE. If a change is deemed necessary, then the DTD will be changed in the UK and resupplied. This is necessary to maintain consistency in the DTD's being used at both ends in the process

Files

The SGML files that will be supplied have already been partially processed but will be invalid according to the DTD (especially the tables)

- 25 Each file should omit the document type declaration and begin directly with the root element

Carriage return characters

Carriage return characters must not appear in any element which has #PCDATA within its content model. If it is wished to use carriage return characters to shorten line lengths, then they must be placed in positions where they will be ignored by an SGML parser e.g. in places where #PCDATA is not allowed, or within start and end tags in places where separator characters are allowed

- 30

Case

Element and attribute names are case-insensitive. They may be entered in either uppercase, lowercase or a mixture

- 35
- Attribute values are usually case-insensitive. The only time that they are case-sensitive is when they have a declared type of CDATA, in which case the string values should be entered directly as they appear in the text

6 Markup minimisation

No non-empty elements have omissible start or end tags, but the empty end tag `</>` can be used to end the currently open element. A carriage return character can not occur within an empty end tag.

DTD structure

- 10 There are four DTDs and a common element declaration that are used to define the structure of the legislation

REGS.DTD

This DTD has the public identifier `"-//SGMLSE//DTD 1.0 Regulations//EN"` and contains the declaration for the regulations. It has two parameter entity references

- 15 which include `"-//SGMLSE//DTD 1.0 Act//EN"` and `"-//SGMLSE//DTD 1.0 Regulation//EN"`

The file *regs.sgm* produced by the Perl script *regs.pl* conforms to *regs.dtd* and calls in all acts as parameter entities

ACTS.DTD

- 20 This DTD has the public identifier `"-//SGMLSE//DTD 1.0 Acts//EN"` and contains the declaration for the acts. It has a parameter entity reference which includes `"-//SGMLSE//DTD 1.0 Act//EN"`.

The file *acts.sgm* produced by the Perl script *acts.pl* conforms to *acts.dtd* and calls in all acts as parameter entities

- 25 **ACT.DTD**

This DTD has the public identifier `"-//SGMLSE//DTD 1.0 Act//EN"` and contains the declaration of an act

REG.DTD

- This DTD has the public identifier `"-//SGMLSE//DTD 1.0 Regulation//EN"` and
30 contains the declaration of a regulation

COMMON.ELT

This list of elements has the public identifier `"-//SGMLSE//ELEMENTS 1.0 Common Elements//EN"` and includes element and entity definitions common to all document types

- 35 **Character entities**

The character entities allowed have been selected from the ISO public sets *isogr1*, *isogr3*, *isolat1*, *isonum*, *isopub* and *isotech*

These characters are translated one-to-one to the equivalent character in the Times New Roman True Type font

- 40 The `<quote>` or `<blockquote>` elements should be used instead to surround any quoted text

Use Quotes (") at the beginning and at the end of these elements

5

Labels and Identifiers

The major structural elements - act, reg, part, schedule, section, sub, s-sub, ss-sub,

- all have a required label attribute (lbl) Unique identifiers should be generated for these elements. The label for these elements is the preceding number or letter WITHOUT any punctuation or parentheses. For example
- 10 1979 No. 141 The charge to income tax - REG 1

Income Tax

1. Fred .

- 15 1. (1) This is . .

```
<section type="reg" lbl="1" ID="CWACT-19790141-SEC-1">
```

```
<title>Income Tax</>
```

```
<list>
```

```
<li lbl="1"><p>Fred .</>
```

- 20

```
<li lbl="1"><p>This is </>
```

```
</li>
```

```
</list>
```

- 25 </section>

Convert list and li items back to the original look in Follo Views, ie to

1 Fred .

1 (1) This is

Cross references

- 30 All cross references point directly to a target by providing the id of the target as the value of an attribute of the xref element. For details of the format of cross reference identifier strings, see the description of the xref element below

All ID's are marked unchanged as Jump Destinations (JD's)

```
<SECTION ID="CWACT-19950104-SEC-1" LBL="1">
```

- 35 becomes

```
<JD " " = "CWACT-19950104-SEC-1">
```

REGS DTD ELEMENT**REGS**

- 40 This is the root element of the Regulations. Its definition is
- ```
<!ELEMENT regs - - (title, header?, reg+) >
```

- 5 That is, it contains a required title element, followed by an optional header element followed by 1 or more act element.  
*Not translated*

## ACTS DTD ELEMENT

### 10 ACTS

This is the root element of the Acts. Its definition is .

```
<!ELEMENT acts - - (title, header?, act+) >
```

That is, it contains a required title element, followed by an optional header element followed by 1 or more act element

- 15 *Not translated*

## REG DTD ELEMENTS

### REG

This is the root element of the dtd for a Regulation. Its definition is

- 20 <!ELEMENT reg - - (title, notes?, provisions?, (preamble|long-  
 title)?,

```
((order+|(section|schedule)+|chapter+|part+),schedule+))>
```

```
<!ATTLIST reg id ID #REQUIRED
```

|    |             |        |           |
|----|-------------|--------|-----------|
|    | lbl         | CDATA  | #REQUIRED |
|    | insert-date | NUMBER | #IMPLIED  |
| 25 | insert-leg  | IDREF  | #IMPLIED  |
|    | repeal-date | NUMBER | #IMPLIED  |
|    | repeal-leg  | IDREF  | #IMPLIED  |
|    | amend-date  | NUMBER | #IMPLIED  |
|    | amend-leg   | IDREF  | #IMPLIED  |

- 30 >

The insert-date attribute should be used to insert the date YYYYMMDD that the REG was inserted. The insert-leg should be used to insert the ID of the legislation that inserted the REG.

- 35 The repeal-date attribute should be used to insert the date YYYYMMDD that the REG was repealed. The repeal-leg should be used to insert the ID of the legislation that repealed the REG.

The amend-date attribute should be used to insert the date YYYYMMDD that the REG was amended. The amend-leg should be used to insert the ID of the legislation that amended the REG.

- 40 *The title gets marked up as Level "Heading Level 1". The period between the insert-date and the repeal-date or amend-date (that is the period during which the above element was in force) gets marked up as follows*

- 5 The Folio Views markup used is Groups. See the manual for explanations. We will use three kinds of groups: Inforce-yyyy, Inforce-yyyy-mm and Inforce-yyyy-mm-dd (yyyy can be any year, mm can be any month from 1 - 12 and dd can be any day from 1 - 31). If the element was valid throughout a year yyyy, the element becomes a member of the Inforce-yyyy group. If the element was valid only for some months within a year, it becomes a member of the relevant Inforce-yyyy-mm groups. If the element was only valid for some days within a month, the element becomes a member of the relevant Inforce-yyyy-mm-dd groups. Example
- 10 If the element was valid from 1/7/94 to 7/4/96, then the element belongs to the following groups
- 15 Inforce-94-07, Inforce-94-08, Inforce-94-09, Inforce-94-10, Inforce-94-11, Inforce-94-12, Inforce-95, Inforce-96-01, Inforce-96-02, Inforce-96-03, Inforce-96-04-01, Inforce-96-04-02, Inforce-96-04-03, Inforce-96-04-04, Inforce-96-04-05, Inforce-96-04-06 and Inforce-96-04-07
- 20 Note that the element is not part of the Inforce-94 group because the element wasn't in force throughout of 1994. Nor is the element part of the Inforce-96-04 group because the element wasn't in force throughout April 1996.
- If the enduser wants to search for all elements that are valid as of a particular date then the enduser can enter that date in a Query Template in the form DD/MM/YYYY. The Query Template then searches the Folio Views Infobase for all elements that
- 25 belong to the groups Inforce-yyyy, Inforce-yyyy-mm and Inforce-yyyy-mm-dd.

## ACT DTD ELEMENTS

### ACT

This is the root element of the dtd for an Act. Its definition is

- 30 <!ELEMENT act - - (title, notes?, provisions?, (preamble|long-title)?, (section+|chapter+|part+|sub+)\*, schedule\*)>
- <!ATTLIST act id ID #REQUIRED
- date CDATA #IMPLIED
- insert-date NUMBER #IMPLIED
- 35 insert-leg IDREF #IMPLIED
- repeal-date NUMBER #IMPLIED
- repeal-leg IDREF #IMPLIED
- amend-date NUMBER #IMPLIED
- amend-leg IDREF #IMPLIED
- 40 >

- 5 That is, it contains a required title element, followed by optional notes, provisions, and preamble and either one or more reg, order, rule, section, chapter or part elements. It has a required id attribute and implied date attribute. The insert-date attribute should be used to insert the date YYYYMMDD that the ACT was inserted. The insert-leg should be used to insert the ID of the legislation that
- 10 inserted the ACT. The repeal-date attribute should be used to insert the date YYYYMMDD that the ACT was repealed. The repeal-leg should be used to insert the ID of the legislation that repealed the ACT. The amend-date attribute should be used to insert the date YYYYMMDD that the
- 15 ACT was amended. The amend-leg should be used to insert the ID of the legislation that amended the ACT.

**Examples**

1979 No. 141 The charge to income tax

```
<act lbl="141" ID="CWACT-19790141-TXT-0">
```

- 20 <title>1979 No. 141 The charge to income tax</>

1979 No. 141 The charge to income tax\*1\*

```
<act lbl="141" ID="CWACT-19790141-TXT-0">
```

```
<title>1979 No 141 The charge to income tax<noteref
ref="CWACT-19790141-note-1"></>
```

- 25 The noteref gets marked up as a popup link. The text of the note becomes the text within the popup link.

Treated the same as Reg DTD Elements. See there for details.

**COMMON ELEMENTS****30 PART**

```
<ELEMENT part - - (title, (plevel;)*,
(chapter+|division+|section+)*, notes?)
<!ATTLIST part id ID #REQUIRED
```

```
 lbl CDATA #IMPLIED
```

- |    |             |        |          |
|----|-------------|--------|----------|
| 35 | insert-date | NUMBER | #IMPLIED |
|    | insert-leg  | IDREF  | #IMPLIED |
|    | repeal-date | NUMBER | #IMPLIED |
|    | repeal-leg  | IDREF  | #IMPLIED |
|    | amend-date  | NUMBER | #IMPLIED |
| 40 | amend-leg   | IDREF  | #IMPLIED |

- 5 The insert-date attribute should be used to insert the date YYYYMMDD that the PART was inserted. The insert-leg should be used to insert the ID of the legislation that inserted the PART.
- The repeal-date attribute should be used to insert the date YYYYMMDD that the PART was repealed. The repeal-leg should be used to insert the ID of the legislation that repealed the PART.
- 10 The amend-date attribute should be used to insert the date YYYYMMDD that the PART was amended. The amend-leg should be used to insert the ID of the legislation that amended the PART.

**Example**

15 <PART lbl="1" ID="CWACTION-19790141-PT-1">  
 <title></title>  
 <p>

*The title gets marked up as Level "Heading Level 2". Dates get treated the same way as in Regs DTD Elements. See there for details.*

**20 ORDER**

<|ELEMENT order - - (title,  
 (division|section|part|schedule)+)>  
 <|ATTLIST order id ID #REQUIRED

	lbl	CDATA	#IMPLIED
25	insert-date	NUMBER	#IMPLIED
	insert-leg	IDREF	#IMPLIED
	repeal-date	NUMBER	#IMPLIED
	repeal-leg	IDREF	#IMPLIED
	amend-date	NUMBER	#IMPLIED
30	amend-leg	IDREF	#IMPLIED

>

The insert-date attribute should be used to insert the date YYYYMMDD that the ORDER was inserted. The insert-leg should be used to insert the ID of the legislation that inserted the ORDER.

- 35 The repeal-date attribute should be used to insert the date YYYYMMDD that the ORDER was repealed. The repeal-leg should be used to insert the ID of the legislation that repealed the ORDER.

The amend-date attribute should be used to insert the date YYYYMMDD that the ORDER was amended. The amend-leg should be used to insert the ID of the legislation that amended the ORDER.

**40 Example**

1979 No 140 FEDERAL COURT RULES - ORDER 3<

5

ORDER 3&lt;

TIME&lt;

\$\$T

\$\$A

\$\$T

10

1979 No 140 FEDERAL COURT RULES - RULE 1&lt;

&lt;ORDER lbl="3" ID="CWACT-19790140-ORD-3"&gt;

&lt;title&gt;TIME&lt;/title&gt;

&lt;section type="rule" lbl="1" ID="CWACT-19790140-ORD-3 1"&gt;

*The title gets marked up as Level "Heading Level 2". Dates get treated the same way as in Regs DTD Elements See there for details*

15

**DIVISION**

<!ELEMENT division - - (title, (sub-division+ | section+))>

<!ATTLIST division id ID #REQUIRED

20

lbl CDATA #IMPLIED

insert-date NUMBER #IMPLIED

insert-leg IDREF #IMPLIED

repeal-date NUMBER #IMPLIED

repeal-leg IDREF #IMPLIED

25

amend-date NUMBER #IMPLIED

amend-leg IDREF #IMPLIED

&gt;

The insert-date attribute should be used to insert the date YYYYMMDD that the DIVISION was inserted The insert-leg should be used to insert the ID of the

30

legislation that inserted the DIVISION

The repeal-date attribute should be used to insert the date YYYYMMDD that the DIVISION was repealed The repeal-leg should be used to insert the ID of the legislation that repealed the DIVISION

The amend-date attribute should be used to insert the date YYYYMMDD that the DIVISION was amended The amend-leg should be used to insert the ID of the legislation that amended the DIVISION

35

**Example**

1979 No 140 FEDERAL COURT RULES - DIVISION 1<

Division 1-General<

40

\$\$T

\$\$A

\$\$T

- 5 1979 No 140 FEDERAL COURT RULES - RULE 1<  
 Cases for service of originating process<  
 <DIVISION lbl="1" ID="CWACT-19790140-DIV-1">  
 <title>General</title>  
 <RULE lbl="1" ID="CWACT-19790140-DIV-1 1">  
 10 <title> Cases for service of originating process </title>  
*The title gets marked up as Level "Heading Level 3" Dates get treated the same way  
 as in Regs DTD Elements See there for details*

**SUB-DIVISION**

- <|ELEMENT sub-division - - (title, section+) >  
 15 <|ATTLIST sub-division id ID #REQUIRED  
 lbl CDATA #IMPLIED  
 insert-date NUMBER #IMPLIED  
 insert-leg IDREF #IMPLIED  
 repeal-date NUMBER #IMPLIED  
 20 repeal-leg IDREF #IMPLIED  
 amend-date NUMBER #IMPLIED  
 amend-leg IDREF #IMPLIED  
 >

- The insert-date attribute should be used to insert the date YYYYMMDD that the  
 25 SUB-DIVISION was inserted The insert-leg should be used to insert the ID of the  
 legislation that inserted the SUB-DIVISION  
 The repeal-date attribute should be used to insert the date YYYYMMDD that the  
 SUB-DIVISION was repealed The repeal-leg should be used to insert the ID of the  
 legislation that repealed the SUB-DIVISION  
 30 The amend-date attribute should be used to insert the date YYYYMMDD that the  
 SUB-DIVISION was amended The amend-leg should be used to insert the ID of the  
 legislation that amended the SUB-DIVISION  
*The title gets marked up with a Paragraph Style (see Folio Views Infobase Production  
 Kit Manual for details) 'Subdivision' Dates get treated the same way as in Regs DTD  
 35 Elements See there for details*

**PROVISIONS**

- <|ELEMENT provisions - - (title, tblblk) >  
 Example  
 \$\$TABLE  
 40 TABLE OF PROVISIONS<  
 \$\$P  
 Order<

5    \$\$\$  
      1           Preliminary<  
      \$\$\$  
      2        Sittings and Vacation<  
      <PROVISIONS>  
 10   <TITLE>TABLE OF PROVISIONS>  
      <TBLBLK>  
  
      </TBLBLK>  
      </PROVISIONS>  
 15   *Provisions get ignored The Table of Provisions gets generated by the conversion  
      program from the following Elements Part, Chapter, Order, Division, Subdivision  
      and Section The generated Table of Provision is stored just before the first Part,  
      Chapter, Order, Division, Subdivision and Section*  
      **CHAPTER**  
 20   <!ELEMENT chapter - - (title, (%plevel,)\*,  
      (part+|section+|article+)?)>  
      <!ATTLIST chapter    id ID #REQUIRED  
                           lbl CDATA #IMPLIED  
  
                  insert-date        NUMBER        #IMPLIED  
 25                   insert-leg        IDREF        #IMPLIED  
                  repeal-date        NUMBER        #IMPLIED  
                  repeal-leg        IDREF        #IMPLIED  
                  amend-date        NUMBER        #IMPLIED  
                  amend-leg        IDREF        #IMPLIED  
 30   >  
  
      The insert-date attribute should be used to insert the date YYYYMMDD that the  
      CHAPTER was inserted The insert-leg should be used to insert the ID of the  
      legislation that inserted the CHAPTER  
      The repeal-date attribute should be used to insert the date YYYYMMDD that the  
 35   CHAPTER was repealed The repeal-leg should be used to insert the ID of the  
      legislation that repealed the CHAPTER  
      The amend-date attribute should be used to insert the date YYYYMMDD that the  
      CHAPTER was amended The amend-leg should be used to insert the ID of the  
      legislation that amended the CHAPTER  
 40   *The title gets marked up as Level "Heading Level 2" Dates get treated the same way  
      as in Regs 1)TD Elements See there for details*



## 5 SECTION

This is a sub element of a Regulation Its definition is

```
<ELEMENT section - - (title, (%unstruct-cont,))>
```

```
<!ATTLIST section id ID #REQUIRED
```

```
 lbl CDATA #IMPLIED
```

10	insert-date	NUMBER	#IMPLIED
	insert-leg	IDREF	#IMPLIED
	repeal-date	NUMBER	#IMPLIED
	repeal-leg	IDREF	#IMPLIED
15	amend-date	NUMBER	#IMPLIED
	amend-leg	IDREF	#IMPLIED

That is, it contains a required title element, followed by unstructured content It has a required lbl attribute and a required id attribute

20 The insert-date attribute should be used to insert the date YYYYMMDD that the SECTION was inserted The insert-leg should be used to insert the ID of the legislation that inserted the SECTION

The repeal-date attribute should be used to insert the date YYYYMMDD that the SECTION was repealed The repeal-leg should be used to insert the ID of the legislation that repealed the SECTION

25 The amend-date attribute should be used to insert the date YYYYMMDD that the SECTION was amended The amend-leg should be used to insert the ID of the legislation that amended the SECTION

### Examples

1979 No 141 The charge to income tax - SECT. 1

30 Income Tax

1979 No. 141 The charge to income tax - REG 2

### Tax

3 Income tax shall be charged

```
<section lbl="1" id="CWACTION-1979141-SEC-1">
```

35 <title>Income tax</title>

```
<section type="reg" lbl="2" id="CWACTION-1979141-SEC-1 2"><title>Tax</title>
```

```
<p>Income tax shall be charged </p>
```

40 The title gets marked up as Level "Heading Level 4" Dates get treated the same way as in Regs DTD Elements See there for details

## SCHEDULE

This is a sub element of a Regulation Its definition is

- 5 <|ELEMENT schedule - - (title?, (%unstruct-cont;))>  
 <|ATTLIST schedule id ID #REQUIRED  
 lbl CDATA #IMPLIED  
 insert-date NUMBER #IMPLIED  
 insert-leg IDREF #IMPLIED  
 10 repeal-date NUMBER #IMPLIED  
 repeal-leg IDREF #IMPLIED  
 amend-date NUMBER #IMPLIED  
 amend-leg IDREF #IMPLIED  
 >
- 15 That is, it contains a required title element, followed by unstructured content. It has a required lbl attribute and a required id attribute.  
 The insert-date attribute should be used to insert the date YYYYMMDD that the SCHEDULE was inserted. The insert-leg should be used to insert the ID of the legislation that inserted the SCHEDULE.
- 20 The repeal-date attribute should be used to insert the date YYYYMMDD that the SCHEDULE was repealed. The repeal-leg should be used to insert the ID of the legislation that repealed the SCHEDULE.  
 The amend-date attribute should be used to insert the date YYYYMMDD that the SCHEDULE was amended. The amend-leg should be used to insert the ID of the legislation that amended the SCHEDULE.
- 25 **Examples**  
**1979 No. 141 The charge to income tax - SCHEDULE 1**  
**Income Tax**  
 1 Income tax shall be charged
- 30 <schedule lbl="1" id="CWACTION-1979141-SCH-1">  
 <title>Income tax</>  
 <p>Income tax shall be charged. </p>  
*The title gets marked up as Level "Heading Level 2". Dates get treated the same way as in Regs DTD Elements. See there for details.*
- 35 **FORM**  
 <|ELEMENT form - - (title, formreg, front, back?) >  
 <|ATTLIST form %reqlbl,  
 %reqid,>  
 Each form has a title, regulation, a front and an optional back. Each has a required  
 40 lbl attribute and a required ID.
- Example**  
**FORM A<**

5

Regulation 7&lt;

(Front of Form)&lt;

COMMONWEALTH OF AUSTRALIA&lt;

Trade Practices Act 1974-Sub-section 88 (1)&lt;

EXCLUSIONARY PROVISIONS.&lt;

10

APPLICATION FOR AUTHORIZATION&lt;

To the Trade Practices Commission Application is hereby made under sub-section  
88 (1) of the Trade

(Back of Form)&lt;

DIRECTIONS&lt;

15 1 Where there is insufficient space on this form to furnish the required information,  
the information is to be shown on separate sheets, numbered consecutively and  
signed by or on behalf of the applicant

&lt;FORM lbl="a" ID="CWACT-19790141-FORM-A"&gt;

&lt;FORMREG&gt;Regulation 7&lt;/FORMREG&gt;

20 &lt;FRONT&gt;

&lt;ASIS&gt;

COMMONWEALTH OF AUSTRALIA&lt;

Trade Practices Act 1974-Sub-section 88 (1)&lt;

EXCLUSIONARY PROVISIONS &lt;

25

APPLICATION FOR AUTHORIZATION&lt;

To the Trade Practices Commission Application is hereby made under sub-section  
88 (1) of the Trade

&lt;/ASIS&gt;

&lt;/FRONT&gt;

30 &lt;BACK&gt;

&lt;ASIS&gt;

DIRECTIONS&lt;

1 Where there is insufficient space on this form to furnish the required information,  
the information is to be shown on separate sheets, numbered consecutively and  
signed by or on behalf of the applicant

35

&lt;/ASIS&gt;

&lt;/BACK&gt;

&lt;/FORM&gt;

40 Forms get marked up with a Paragraph Style 'Forms' The markup of 'Front' and  
'Back' gets inserted as hidden text (hidden text is visible on the screen but doesn't  
show when the Form gets printed

## 5 FORM ELEMENTS

### FORMREG

<|ELEMENT formreg - - (#PCDATA) >

see above example

### FRONT

10 <|ELEMENT front - - (asis) >

see above example

### BACK

<|ELEMENT back - - (asis) >

see above example

15 **ASIS**

<|ELEMENT asis - - (#PCDATA) >

date is displayed as-is

see above example

## HEADER ELEMENTS

20 **HEADER**

<|ELEMENT header - - (scope?, updated?) >

### SCOPE

<|ELEMENT scope - - (%text,) >

### UPDATED

25 <|ELEMENT updated - - (%text,) >

## NOTE ELEMENTS

### NOTES

<|ELEMENT notes - O (note+) >

List of notes at the start of an act

30 **NOTE**

<|ELEMENT note - - (%plevel,) >

<|ATTLIST note id ID #REQUIRED>

A single note

35 *Forms get marked up with a Paragraph Style 'Forms' The markup of 'Front' and 'Back' gets inserted as hidden text (hidden text is visible on the screen but doesn't show when the Form gets printed)*

## STRUCTURAL ELEMENTS

### TITLE

40 A generic title, which may occur in several different contexts

*Covered in Acts DTD Elements, Regs DTD Elements and so on*

## 5 **INLINE ELEMENTS**

---

### **BOLD**

Used to mark any inline text which is set in a bold face other than a title or a label. It may contain text or any inline elements other than <bold>

It has no attributes

### 10 **ILEQN**

An inline equation. This is a mathematical equation which is embedded in a line of text characters or other inline elements. See the attached description of equations for further details.

### **ITAL**

15 Used to mark any inline text which is set in a italic face other than a title or a label. It may contain text or any inline elements other than <italic>

It has no attributes

### **QUOTE**

A sequence of text characters or inline elements surrounded by single or double paired quotation marks. The quotation mark characters must not be entered as text characters or entity references as they will be generated automatically.

### **SUBSCR**

A Subscript (inferior)

### **SUPER**

25 A superscript (superior)

*Brought over from SGML to Folio Views with no changes*

## **CROSS REFERENCES**

---

### **NOTEREF**

A reference to a NOTE element normally used in a TITLE element

30 *Implemented as a popup link*

### **TEMPREF**

A reference to a piece of legislation where the ID is not known. The tempref element will be converted to an XREF element at a later date (when the ID is known).

*Not converted*

### 35 **RNGREF**

A cross reference to a sequential range of targets, e.g. see Sections 3 to 7

It has two required attributes, startref and endref. Startref is the id of the first of the targets referenced and endref is the id of the last target referenced. For a description of id strings, see the description of the xref element.

40 *Converted as a Query Link*

5 **XREF**

A cross reference to a single target. It has a single attribute, *ref*, which must contain the id string of the target of the reference. Ids are not being entered on elements during keying, but will be generated automatically from the *lbl* attribute of elements. However, for xrefs it is necessary to work out what the id string of the target will be.

10 The format of id strings is described below

*Converted as a jumplink*

**ID Strings**

Cross references to sections of Acts and Act Schedules should be marked up using the *xref* element as described above.

15 .....

Id strings are made up of four sequential fields separated by a "-" (dash) character as follows

field1-field2-field3-field4

field 1 is the type of document which is being referenced. The current valid value is

20 ACT

field2 is an abbreviated form of the year and number of the Act, e.g. 19880001 is 1988 No 1

field3 identifies the type of object being referenced. Valid values are :

ORD order

25 DIV division

SCH schedule in an Act

SEC section in an Act

CH chapter in an Act

PT part in an Act

30 NOTE a note

field4 is the identifier of the element being referenced, which is formed by concatenating the values of the *lbl* attributes of the referenced element and its ancestor elements, separated by a "." (point) character. e.g. 1 or 1.1 or 1.1.a or 1.1.a.iv

35 **Examples**

```
<section lbl="1"> <!-- id is ACT-19790141-SEC-1 -->
```

```
<title>The charge to income tax </>
```

```
<list>
```

```
<li lbl="1">
```

40 <p>Income tax shall be charged </>

*Implemented as jumpdestination*

6

**BLOCK LEVEL ELEMENTS****DPEQN**

A display equation This is a mathematical equation which is set on one or more lines by itself See the attached description of equations for further details

10 It has no attributes

It has no attributes

**LIST**

A list of related lines of text which are not sub, s-sub or ss-sub elements

**LI**

15 An item in a list This is a single line of text within a list

It has a single attribute, marker, which has allowed values of bullet, dash or none, with a default of none If a marker character precedes the list item then the relevant value should be entered for the attribute The marker character should not be entered as text If any marker character other than a bullet or dash is found, contact

20 SGMLSE for a change to the DTD

**P**

A single line of text

**BLOCKQUOTE**

A non-inline quote The quotation mark characters must not be entered as text characters or entity references as they will be generated automatically

25

**TBLBLK**

A container element for a table which has a title It contains a required title element followed by a single table

It has no attributes

30 *The above elements get implemented either without conversion or using paragraph styles***TABLE ELEMENTS****General**

Arbortext tables expressed in tagged ASCII form must follow this basic structure

35 &lt;table&gt;

&lt;rowrule&gt;

for each row

{

&lt;tablerow&gt;

40 &lt;cellrule&gt;

for each column

{

```

5 <tablecell>text</tablecell>
 <cellrule>
 }
 </tablerow>
 <rowrule>
10 }
 </table>

```

## TABLE

- The <table> tag has three required attributes. They must be specified correctly or the table will not be handled properly.
- 15 **ncols=NUMBER** The number of columns in the table. This value MUST agree with the number of columns expressed by the required **cwl** attribute.
- wdm=(25|50|75|100)** The numbers indicate the width of the table as a percentage of the page width.
- 20 **cwl=LIST** where LIST is a list of integers each separated by a colon. Each integer represents the relative width of a column.

### Example

- A four column table which is the full width of the page. The second and third columns are twice the width of the first column, and the fourth column is three times the width of the first.
- 25

```
<table ncols="4" wdm="100" cwl="1 2 2 3">
```

or, equivalently,

```
<table ncols="4" wdm="100" cwl="5 10 10 15">
```

## CELLRULE

- 30 **Empty element** Specifies a vertical rule. It has a single attribute, **rtv**, which specifies the type of rule. Valid values for **rtv** are

- |        |          |                    |
|--------|----------|--------------------|
| " "    | (point)  | for a blank rule,  |
| "-"    | (dash)   | for a single rule, |
| "="    | (equals) | for a double rule, |
| 35 "+" | (plus)   | for a bold rule    |

### Example

```
<cellrule rty=" " >
```

for a blank rule, or

```
<cellrule rty="-" >
```

- 40 for a single rule



## 5 ROWRULE

Empty element Specifies a sequence of horizontal rules, one per cell in the row. It has a single attribute, `rtl`, which is a colon-delimited list of rule type specifiers. There must be one rule type specifier for each cell in the row. The valid specifiers are as for `cellrule` above

### 10 Example

For a four-column table

```
<rowrule rtl="- . . . -">
```

would draw a horizontal rule above cells one and four

## TABLEROW

- 15 Specifies a row in the table. It has a single attribute, `hdr`, which specifies whether or not the row is a header row in a table which will be repeated over page breaks. The only valid value is "1" (one), which indicates that the row is a header row. An omitted value for `hdr` indicates that the row is not a header row. A value is only valid on the first `<tablerow>` in the table

### 20 Example

```
<tablerow hdr="1">
```

Indicates that the row is a header row (iff the `<tablerow>` is the first in the table, else it will generate an error)

```
<tablerow>
```

- 25 Indicates that the row is not a header row if the `<tablerow>` is the first in the table

## TABLECELL

Indicates a cell in a row in a table. It has four optional attributes:

`chj = (b | l | r | c)` Horizontal justification for that cell

`b` for both right and left justified,

- 30 `l` for flush left,

`r` for flush right,

`c` for centred

Default: left justified

- 35 `cvj = (t | c | b)` Vertical justification for that cell

`t` for top justified,

`c` for centred, or

`b` for bottom justified

Default: top justified

- 40 `spn = INTEGER` For horizontally spanned columns. `VAL` is a whole number representing how many columns are spanned. Note that for horizontal spans, the

- 5 text appears in the LEFTMOST cell in the span, and all other cells in the span should be void of text

Default: 1

valign=INTEGER For vertically spanned rows VAL is a whole number representing how many rows are spanned Note that for vertical spans, the text appears in the LOWEST cell in the span, and all other cells in the span should be void of text

- 10

Default: 1

### Arbortext table example

15

foo	fum	
		fee
spanned		ugh

20

```

<tbl>
<table wdm="100" cwl="3 4 3">
<rowrule rti="- -">
<tablerow hdr="1">
25 <cellrule rty="-">
<tablecell>foo</tablecell>
<cellrule rty="-">
<tablecell chj="c">fum</tablecell>
<cellrule rty="-">
30 <tablecell chj="r" cvj="b">fee</tablecell>
<cellrule rty="-">
</tablerow>
<rowrule rti="- -">
<tablerow>
35 <cellrule rty="-">
<tablecell spn="2" chj="c">spanned</tablecell>
<cellrule rty="-">
<tablecell chj="c">ugh</tablecell>
<cellrule rty="-">
40 </table-row>
<rowrule rti="- -">
</table>

```

5 &lt;/tbl&gt;

*Tables get converted to Microsoft Word tables and then converted into Folio Views*  
**EQUATION ELEMENTS**

**General**

- 10 This maths DTD is a subset of the Arbortext maths DTD, which itself is derived from the AAP maths DTD  
 In maths mode, all spaces are ignored (except in a <phr> element as described below). Correct spacing is handled automatically.  
 All alphabetical characters and symbols are treated as variables and set in italic face,  
 15 unless they occur within <phr>, <im> or <rf> elements  
 All numeric characters and operators are set in roman face, unless they occur within an <it> element  
 Greek symbols should be entered using the <g> element rather than entity references. E.g. <g>a</g> produces alpha, <g>b</g> beta, etc. Any entity  
 20 references for Greek characters which appear in equations will be flagged as errors by the parsing program

**B**

Bold text in an equation

**DE**

- 25 Denominator of a fraction

**F**

Inline equation

**FD**

Display equation

- 30 **FEN**

Fence A pair of bracketed delimiters. The attribute lp (left post) defines the type of the left delimiter as below, and the following element rp (right post) defines the type of the right delimiter

- |    |               |     |                      |    |    |
|----|---------------|-----|----------------------|----|----|
|    | < ATTLIST fen | lp  | (par sqb cub ang vb) | vb | -- |
| 35 |               | par | left parenthesis     | (  |    |
|    |               | sqb | left square bracket  | [  |    |
|    |               | cub | left curly brace     | {  |    |
|    |               | ang | left angle bracket   | <  |    |
|    |               | vb  | left vertical bar    |    |    |

- 40 -->

**FR**

Fraction

## 5 G

Greek character or characters Valid characters are

	char	equivalent entity
	a	alpha
	b	beta
10	c	chi
	d	delta
	D	Delta
	e	epsilon
	3	epsilon
15	4	phi
	f	phi
	F	Phi
	g	gamma
	G	Gamma
20	h	eta
	i	iota
	J	theta
	k	kappa
	l	lambda
25	L	Lambda
	m	mu
	n	nu
	p	pi
	2	pi
30	P	Pi
	q	theta
	Q	Theta
	r	rho
	s	sigma
35	S	Sigma
	9	rho
	t	tau
	u	upsilon
	U	Upsilon
40	v	sigma
	w	omega
	W	Omega

- |   |   |             |
|---|---|-------------|
| 5 | x | $x_i$       |
|   | X | $\lambda_i$ |
|   | y | $\psi_i$    |
|   | Y | $\Psi_i$    |
|   | z | $z_{ola}$   |
- 10 **INF**  
Inferior Subscript in an equation  
**IT**  
Italic text in an equation  
**NU**
- 15 Numerator of a fraction  
**OVL**  
Overline  
**PHR**  
Phrase In a phrase all characters are set in roman face and keyed space characters are preserved. A phrase is essentially a temporary escape out of maths mode back into normal text mode.
- 20 **RAD**  
Radical or root. Contains a radicand (<rcd>), which is the construct which appears beneath the top horizontal bar, and an optional radix (rdx), which is the power of the root (e.g. square, cube, 4, etc.).
- 25 **RCD**  
Radicand The content of a root construct  
**RDX**  
Radix The power of a root
- 30 **RF**  
Roman Function A function name set in roman face, such as log, sin, cos, lim, arg, etc. It differs from the <rm> element in that preceding and following space characters are generated to separate it from surrounding characters.  
**RM**
- 35 Roman face Used to force an alpha character to be displayed in normal face rather than be treated as a variable and displayed in italic face  
**RP**  
Right delimiter of a fence. It has a single attribute, post, which defines the type of the delimiter. Valid values are the same as for the lp attribute of the <fen> element,
- 40 **SUP**  
Superior A superscript in an equation

## 5 UNL

Undorline

**Arbortext equation examples**

. by multiplying by the fraction -

 $\Delta$ 

10 B

where -

&lt;p&gt; .. by multiplying by the fraction -&lt;/&gt;

&lt;dpeqn&gt;&lt;fr&gt;&lt;nu&gt;&lt;rm&gt;\Delta&lt;/&gt;&lt;/&gt;&lt;do&gt;&lt;rm&gt;B&lt;/&gt;&lt;/&gt;&lt;/&gt;&lt;/&gt;

&lt;p&gt;where -&lt;/p&gt;

15

by the formula -

gross taxable income

not assets

20 &lt;p&gt; . by the formula -&lt;/&gt;

<dpeqn><fr><nu><phr>gross taxable income</></><do><phr>net  
assets</></></></>*Equatlons get converted to Microsoft Word equations and then converted into Folio  
Views. Alternatively equations get converted to Images and added to Folio Views as*25 *Images*

## APPENDIX E

```

5 <ISGML "ISO 8879:1986"
--
-- ArborText's default SGML declaration, modified to allow
-- longer id/Idref's, and to use a number of special characters
10 within them.
--

```

```
CHARSET
BASESET "ISO 646-1983//CHARSET
15 International Reference Version (IRV)//ESC 2/5 4/0"
DESCSET
```

			0	9	UNUSED
			9	2	9
	11	2	UNUSED		
20	13	1	13		
	14	18	UNUSED		
	32	95	32		
	127	1	UNUSED		
	128	128	"High order characters"		

25	CAPACITY SGMLREF	
	TOTALCAP	200000
	ENTCAP	35000
	ENTCHCAP	35000
30	ELEMCAP	35000
	GRPCAP	150000
	EXGRPCAP	35000
	EXNMCAP	35000
	ATTCAP	50000
35	ATTCHCAP	35000
	AVGRPCAP	35000
	NOTCAP	35000
	NOTCHCAP	35000
	IDCAP	35000
40	IDREFCAP	35000
	MAPCAP	35000
	LKSEFCAP	35000
	LKNMCP	35000

45 SCOPE DOCUMENT

```
SYNTAX
 SHUNCHAR 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
 18 19 20 21 22 23 24 25 26 27 28 29 30 31 127
50 BASESET "ISO 646-1983//CIHARSET
 International Reference Version (IRV)//ESC 2/5 4/0"
 DESCSET 0 128 0
```

```

5 128 128 "High-order characters"
 FUNCTION RE 13
 RS 10
 SPACE 32
 TAB SEPCHAR 9
10 NAMING LCNMSTRT ""
 UCNMSTRT ""
 LCNMCHAR "- /[]"
 UCNMCHAR "- /[]"
 NAMECASE GENERAL YES
15 ENTITY NO
 DELIM GENERAL SGMLREF
 SHORTREF SGMLREF
 NAMES SCMLREF
 QUANTITY SGMLREF
20 ATTCNT 100
 ATTSPLN 960
 BSEQLEN 960
 DTAGLEN 16
 DTEMPLN 16
25 ENTLVL 16
 GRPCNT 100
 GRPGTCNT 96
 GRPLVL 16
 LITLEN 800
30 NAMELEN 64
 NORMSEP 2
 PILEN 1024
 TAGLEN 960
 TAGLVL 24
35 FEATURES
 MINIMIZE DATATAG NO OMITTAG YES RANK NO SHORTTAG
 YES
 LINK SIMPLE NO IMPLICIT NO EXPLICIT NO
40 OTHER CONCUR NO SUBDOC NO FORMAL YES
 APPINFO NONE >

```

```

<!DOCTYPE legislation
45 [
 <!--

```

DTD for Scantext/Abha Legislation - (C) Turn-Key Systems 1997

```

50 History

```

1997-10-13 fix hist at beginning of regs



5 1997-10-07 restore <target> tag  
 1997-10-02: enhanced support for regulations (hist,  
 unconv etc)

-->

10 <!-- useful characters such as &mdash, -->  
 <!ENTITY % ISOpub public "ISO 8879-1986//ENTITIES Publishing//EN">  
 %ISOpub,

15 <!-- PARAMETER ENTITIES USED TO SIMPLIFY DTD MARKUP -->  
 <!entity % major  
 "schedule|intcon|article|annex|clause|chapter|part|division|subdivn|section|subs  
 ec|reg|subreg"  
 20 -- major levels -->

<!entity % minor "defn|para|subpar1|subpar2|subpar3|subpar4|point"  
 -- minor levels -->

25 <!entity % secreg "section | reg"  
 -- used where either sections or regs are appropriate -->

<!entity % level "%major, | %minor,"  
 -- all levels -->

30 <!entity % refs "term|l ref|h ref"  
 -- references which can be found in normal text -->

<!entity % raw "(rawtext|rawtable|unconverted)\*"  
 35 -- material such as forms which remains as raw text -->

<!entity % effect "sc"  
 -- typographical effects (more to be added later) -->

40 <!entity % text "(%refs, | %effect, | #PCDATA)\*"  
 -- normal text (including refs defined above) -->

<!entity % hnote "hist | note"  
 -- hist and note are temporarily interchangeable -->

45 <!entity % body "(p+ | repealed), (%hnote,)\*"  
 -- body of a legislative element -->

<!entity % lev id "((label, desc?) | (desc, label?))"  
 50 -- reversible level id -->

```

5 <!-- MASTER ELEMENT -->
 <'element legislation -- (act | regulations)+
 -- Acts and Regs are currently supported -->

10 <!-- DEFINITIONS OF ACTS AND CONSTITUENT ELEMENTS -->
 <'element act -- (desc, (%hnote, | %raw,)*,
 longtitle, preamble?,
 (chapter+ | part+ | section+),
 schedule*, hist*)>

15 <'element longtitle -- (#PCDATA)>
 <'element preamble -- (p +) +(para)>

 <'element regulations -- (desc, (%hnote, | %raw,)*,
 (chapter+ | part+ | reg+),
 schedule*, hist*)>

20 <!-- MAJOR LEVELS -->
 <'element chapter -- (label, desc, (%hnote,)*,
 (((%secreg,)*, part*) | article+))>

25 <'element part -- (label?, desc, hist*,
 (((%secreg,)*, division*) | (article+ | clause+)))>
 <'element division -- (label?, desc, (p | %hnote,)*,
 (((%secreg,)*, subdivn*) | clause+))>
 <'element subdivn -- (label?, desc, (%hnote,)*,
 ((%secreg,)+ | clause+))>

30 <'element section -- (%lev id,,
 ((subsec+, (modules | module+)?) | repealed))>
 <'element subsec -- (%lev id,,
 ((p, (p | note)*, hist*) | (repealed, note*, hist*)))>

35 <'element modules -- (%lev id,,
 module+)>
 <'element module -- (%lev id,,
 (submod+ | repealed))>
 <'element submod -- (%lev id,,
 ((p, (p | %hnote, | method | tabloid)*) | (repealed, (%hnote,)*)))>

40 <'element reg -- (label?, desc, hist?,
 (subreg+ | repealed))>
 <'element subreg -- (label, desc?, hist?,
 ((p, (p | note)*, hist*) | (repealed, note*, hist*)))>

45 <!-- SCHEDULES, CONVENTIONS etc -->
 <'element schedule -- (label?, desc?, hist*,
 (chapter+ | part+ | section+ | item+ | p+ | tabloid+ | intcon)?,
 %raw,)>

50 <'element intcon -- (desc, preamble,
 (part+ | division+ | subdivn+ | article+), annex*)>
 <'element annex -- (label?, desc, p*,

```

```

5 (part* | division* | clause* | para*))>
<!element article -- (label, desc, p*,
 (division* | clause* | para*))>
<!element clause -- (((label, desc?) | (desc, label)), p+)>
<!element item -- (label?, desc?, %body,)>
10

<!-- DEFINITIONS AND MINOR LEVELS -->
<!element defn -- (%body,)>
<!element note -- (label?, p+)>
15 <!element hist -- (label?, (p+ | %raw,))>
<!element point -- (p+)>

<!element para -- (label?, %body,)>
<!element subpar1 -- (label?, %body,)>
20 <!element subpar2 -- (label?, %body,)>
<!element subpar3 -- (label?, %body,)>
<!element subpar4 -- (label?, %body,)>

<!element method -- (%lev id., (p | %hnote, | step)+)>
25 <!element step -- (label, %body,)>

<!-- COMMON CONSTITUENT ELEMENTS -->
<!element label -- (%text,)
30 -- chapter number, section number, etc -->
<!element desc -- (%text,)
-- chapter name, section name, etc -->
<!element term -- (%text,)
-- defined term -->
35 <!element repealed - o EMPTY
-- indicates that the enclosing level has been repealed -->
<!element p -- (%minor| %refs, | %effect| tabloid| amend| target| #PCDATA)*
-- textual paragraph at any level -->
40

<!-- UNCONVERTED MATERIAL -->
<!element unconverted -- CDATA
-- yet to be converted (eg complex schedules) ->
<!element rawtext -- CDATA
45 -- unconverted text (eg forms) -->
<!element rawtable -- CDATA
-- unconverted tables (eg amended provisions) -->

50 <!-- CROSS-REFERENCES -->
<!element l ref -- (%text,) -- legislation ref -->
<!element h ref -- (%text,) -- history ref -->

```

```

5 <!-- AMENDMENT MARKUP -->
 <!element amend -- (%refs| %effect| quote| #PCDATA)*
 -- amendment = action + text -->
 <!element target -- (#PCDATA)
10 -- target of amendment -->
 <!element quote -- (label| desc| p| %level| %refs| %effect| #PCDATA)*
 -- quoted material -->

 <!-- PSEUDO-TABLES -->
15 <!element tabloid -- (label?, desc?, (head | row) +)>
 <!element head -- (cell +)>
 <!element row -- (cell +)>
 <!element cell -- (#PCDATA|p)*>

20 <!-- EFFECTS -->
 <!element sc -- (#PCDATA) -- small caps -->

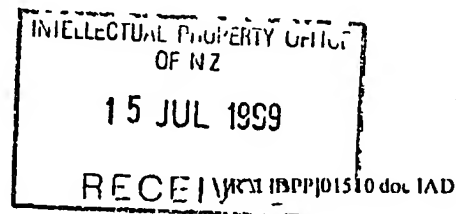
25 <!-- ATTRIBUTE LISTS -->
 <!attlist act juris (cth|nsw|vic|qld|sa|wa|tas|act|nt|imp)
 #REQUIRED -- jurisdiction --
 year CDATA #REQUIRED -- year assented --
 number CDATA #REQUIRED -- act number --
30 reps CDATA #IMPLIED -- 2nd reading (HR) --
 senate CDATA #IMPLIED -- 2nd reading (Sen) --
 assent CDATA #IMPLIED -- assent date --
 cdate CDATA #IMPLIED -- commencement -->
 <!attlist regulations juris (cth|nsw|vic|qld|sa|wa|tas|act|nt|imp)
35 #REQUIRED -- jurisdiction --
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**What we claim is:**

- 1       A system for publishing electronic information, comprising:  
a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means, and, for each predefined portion, said each  
5 predefined portion is stored and, where such predefined portion has been modified, each such modified predefined portion is stored, and  
a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising said data
- 2       The system according to claim 1, comprising means for searching within  
10 the system
- 3       The system according to claim 2, wherein said searching means uses one or more attributes
- 4       The system according to claim 2 or 3, wherein said searching means uses any predefined portion, any modification of a predefined portion, or any word or phrase  
15 within such predefined portion or such modification
- 5       The system according to claim 1, further comprising means for searching at least one of said predefined portions of said data using said plurality of attributes, wherein said plurality of attributes are coupled to each of said predefined portions by said respective linking means, and for retrieving one or more of said predefined  
20 portions using said plurality of attributes to define a point in said multidimensional space
- 6       The system according to any one of claims 1 to 3 or claim 5, wherein said plurality of predefined portions of said data are encoded using Standard Generalised Markup Language (SGML) OR XML
- 25 7       The system according to claim 6, wherein said data is encoded using one or more Document Type Definitions (DTD) or Style Sheet Mechanisms (SSM)
- 8       The system according to any one of claims 1 to 3 or claim 5, wherein said linking means comprises any piece of information additional to the body of the data
- 9       The system according to claim 8, wherein said linking means is a code or  
30 markup that allows departure and destination points to be created between portions of data



10     The system according to any one of claims 1 to 3 or claim 5, wherein said at least one linking means comprises an identification code for said respective predefined portion

11     The system according to any one of claims 1 to 3 or claim 5, wherein a  
5     first database comprises said plurality of predefined portions of data

12     The system according to claim 11, wherein a second database comprises said plurality of attributes for managing said first database.

13     The system according to any one of claims 1 to 3 or claim 5, wherein said predefined portions are encoded with one or more attributes

10     14     The system according to any one of claims 1 to 3 or claim 5, wherein said respective predefined portion is changed by performing one of the group consisting of adding at least one attribute to said respective predefined portion, deleting at least one attribute from said respective predefined portion, and modifying at least one of the attributes of said respective predefined portion

15     15     The system according to any one of claims 1 to 3 or claim 5, wherein said respective predefined portion is changed by performing one of the group consisting of adding data to said respective predefined portion, deleting data from said respective predefined portion, and modifying data of said respective predefined portion

16     The system according to any one of claims 1 to 3 or claim 5, wherein said  
20     data comprises legislation

17     The system according to claim 16, wherein each of said plurality of predefined portions of data is a respective provision of said legislation

18     The system according to claim 17, wherein said provision is a section or schedule of an Act, or a regulation or schedule of a Regulation(s)

25     19     The system according to any one of claims 1 to 3 or claim 5, wherein said system is implemented using a general purpose computer

20     A recording medium for publishing electronic information, comprising  
a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means, and, for each predefined portion, said each  
30     predefined portion is stored and, where such predefined portion has been modified, each such modified predefined portion is stored, and

a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising said data

21 The recording medium according to claim 20, wherein means for searching can be used to search the recording medium.

5 22. The recording medium according to claim 21, wherein said searching means uses one or more attributes.

23 The recording medium according to claim 21 or 22, wherein said searching means uses any predefined portion, any modification of a predefined portion, or any word or phrase within such predefined portion or such modification

10 24 The recording medium according to claim 20, further comprising means for searching at least one of said predefined portions of data uses said plurality of attributes, wherein said plurality of attributes are coupled to each of said predefined portions by said respective linking means, and for retrieving one or more of said predefined portions using said plurality of attributes to define a point in said  
15 multidimensional space

25 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said plurality of predefined portions of said data are encoded using Standard Generalised Markup Language (SGML) OR XML

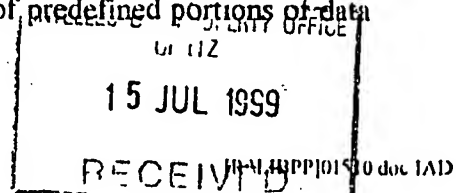
20 26 The recording medium according to claim 25, wherein said data is encoded using one or more Document Type Definitions (DTD) or Style Sheet Mechanisms (SSM)

27 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said linking means comprises any piece of information additional to the body of the data

25 28 The recording medium according to claim 27, wherein said linking means is a code or markup that allows departure and destination points to be created between portions of data

29 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said at least one linking means comprises an identification code for said  
30 respective predefined portion

30 The recording medium according to any one of claims 20 to 22 or claim 24, wherein a first database comprises said plurality of predefined portions of data





31. The recording medium according to claim 30, wherein a second database comprises said plurality of attributes for managing said first database

32. The recording medium according to any one of claims 20 to 22 or claim 24, wherein said predefined portions are encoded with one or more attributes.

5 33 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said respective predefined portion is changed by performing one of the group consisting of adding at least one attribute to said respective predefined portion, deleting at least one attribute from said respective predefined portion, and modifying at least one of the attributes of said respective predefined portion

10 34 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said respective predefined portion is changed by performing one of the group consisting of adding data to said respective predefined portion, deleting data from said respective predefined portion, and modifying data of said respective predefined portion

15 35 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said data comprises legislation

36 The recording medium according to claim 35, wherein each of said plurality of predefined portions of data is a respective provision of said legislation

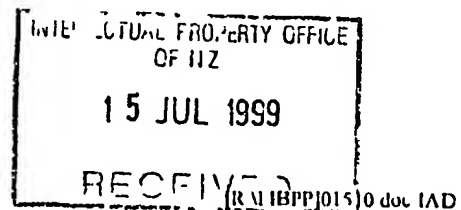
37 The recording medium according to claim 36, wherein said provision is a section or schedule of an Act, or a regulation or schedule of a Regulation(s)

20 38 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said recording medium is implemented using a general purpose computer

39 The recording medium according to any one of claims 20 to 22 or claim 24, wherein said recording medium is made from one of the group consisting of magnetic media, optical media, and magneto-optical media

25 40 A method for publishing electronic information, comprising the steps of providing a plurality of predefined portions of data with each predefined portion being encoded with at least one linking means, and, for each predefined portion, said each predefined portion is stored and, where such predefined portion has been modified, each such modified predefined portion is stored, and

30 providing a plurality of attributes, each attribute being a point on an axis of a multidimensional space for organising said data



41. The method according to claim 40, comprising the step of searching said data.

42. The method according to claim 41, wherein said searching step uses one or more attributes.

5        43. The method according to claim 41 or 42, wherein said searching step uses any predefined portion, any modification of a predefined portion, or any word or phrase within such predefined portion or such modification.

44. The method according to claim 40, further comprising the step of searching at least one of said predefined portions of said data using said plurality of attributes,  
10        wherein said plurality of attributes are coupled to each of said predefined portions by said respective linking means, and for retrieving one or more of said predefined portions using said plurality of attributes to define a point in said multidimensional space.

45. The method according to any one of claims 40 to 42 or claim 44, wherein  
15        said plurality of predefined portions of said data are encoded using Standard Generalised Markup Language (SGML) OR XML.

46. The method according to claim 45, wherein said data is encoded using one or more Document Type Definitions (DTD) or Style Sheet Mechanisms (SSM).

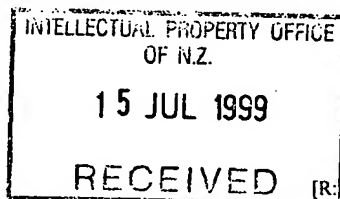
47. The method according to any one of claims 40 to 42 or claim 44, wherein  
20        said linking means comprises any piece of information additional to the body of the data.

48. The method according to claim 47, wherein said linking means is a code or markup that allows departure and destination points to be created between portions of data.

25        49. The method according to any one of claims 40 to 42 or claim 44, wherein said at least one linking means comprises an identification code for said respective predefined portion.

50. The method according to any one of claims 40 to 42 or claim 44, wherein a first database comprises said plurality of predefined portions of data.

30        51. The method according to claim 50, wherein a second database comprises said plurality of attributes for managing said first database.



52 The method according to any one of claims 40 to 42 or claim 44, wherein said predefined portions are encoded with one or more attributes.

53 The method according to any one of claims 40 to 42 or claim 44, wherein said respective predefined portion is changed by performing one of the group consisting  
5 of adding at least one attribute to said respective predefined portion, deleting at least one attribute from said respective predefined portion, and modifying at least one of the attributes of said respective predefined portion

54 The method according to any one of claims 40 to 42 or claim 44, wherein said respective predefined portion is changed by performing one of the group consisting  
10 of adding data to said respective predefined portion, deleting data from said respective predefined portion, and modifying data of said respective predefined portion

55 The method according to any one of claims 40 to 42 or claim 44, wherein said data comprises legislation

56 The method according to claim 55, wherein each of said plurality of  
15 predefined portions of data is a respective provision of said legislation

57 The method according to claim 56, wherein said provision is a section or schedule of an Act, or a regulation or schedule of a Regulation(s)

58 The method according to any one of claims 40 to 42 or claim 44, wherein said method is implemented using a general purpose computer

20 59 A method of publishing electronic information according to any one of claims 40 to 58 and substantially as described herein with reference to any one of the embodiments as that embodiment is illustrated in the drawings

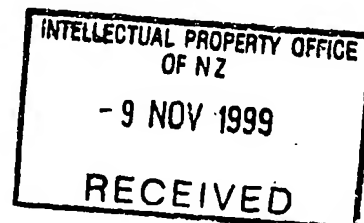
60 A system for publishing electronic information according to any one of claims 1 to 19 and substantially as described herein with reference to any one of the  
25 embodiments as that embodiment is illustrated in the drawings

DATED this Second Day of November 1999

Time Base Pty Limited

Patent Attorneys for the Applicant

SPRUSON & FERGUSON



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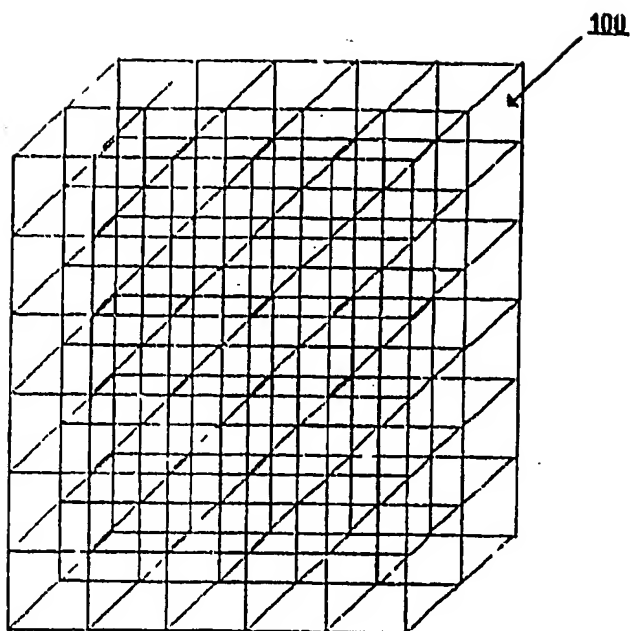


Fig 1

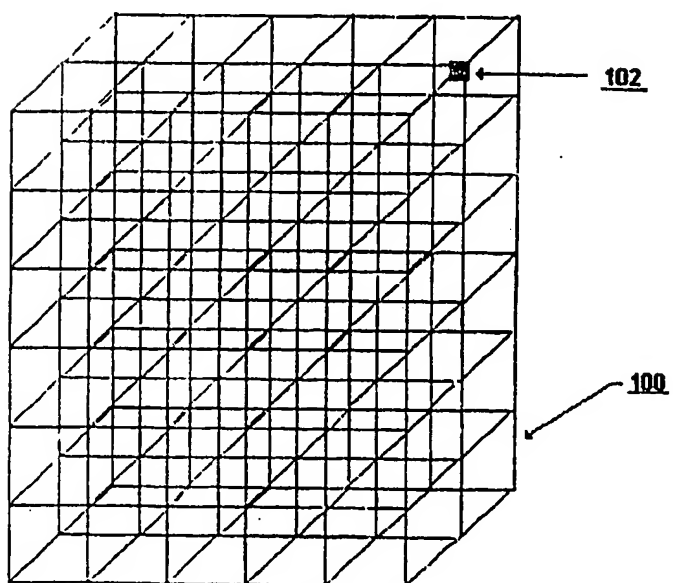
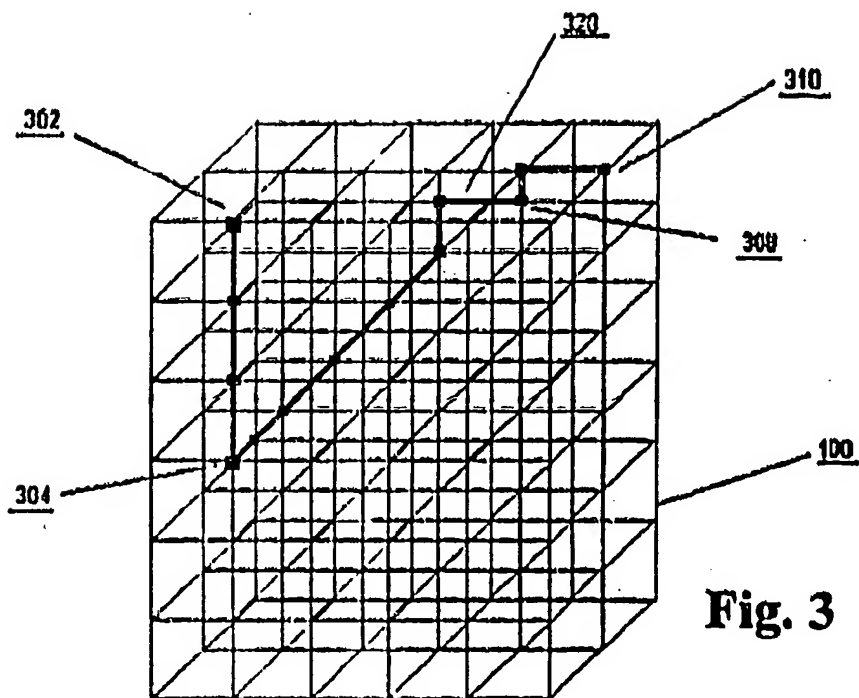
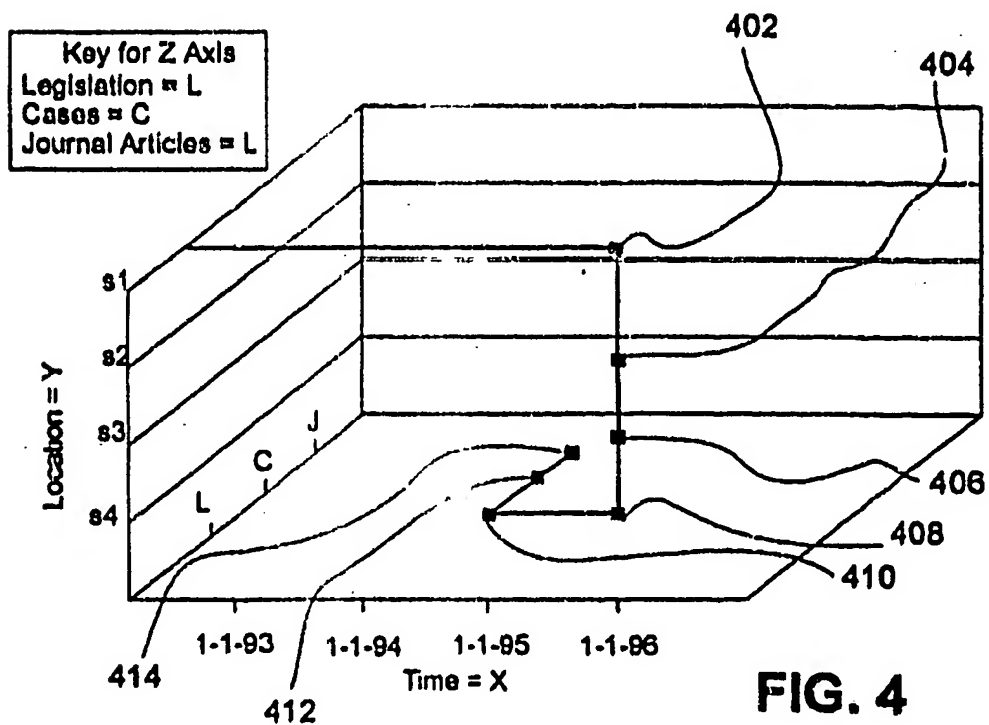


Fig 2

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**Fig. 3**



**FIG. 4**

SUBSTITUTE SHEET (RULE 26)

. 3/15 .

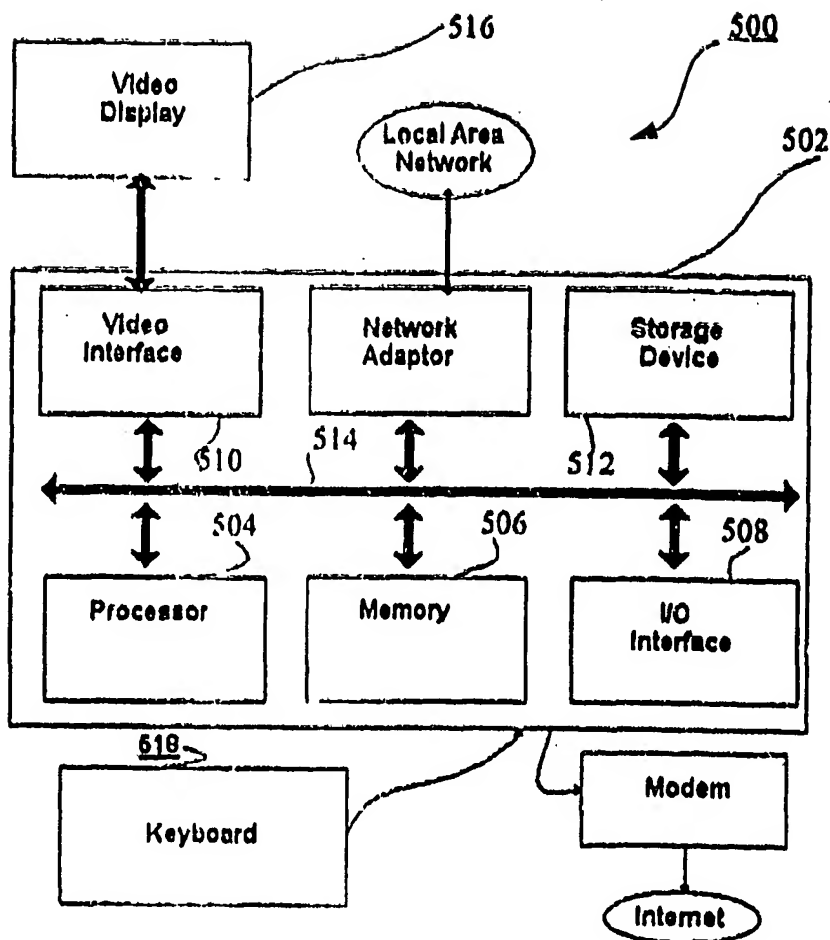


Fig. 5

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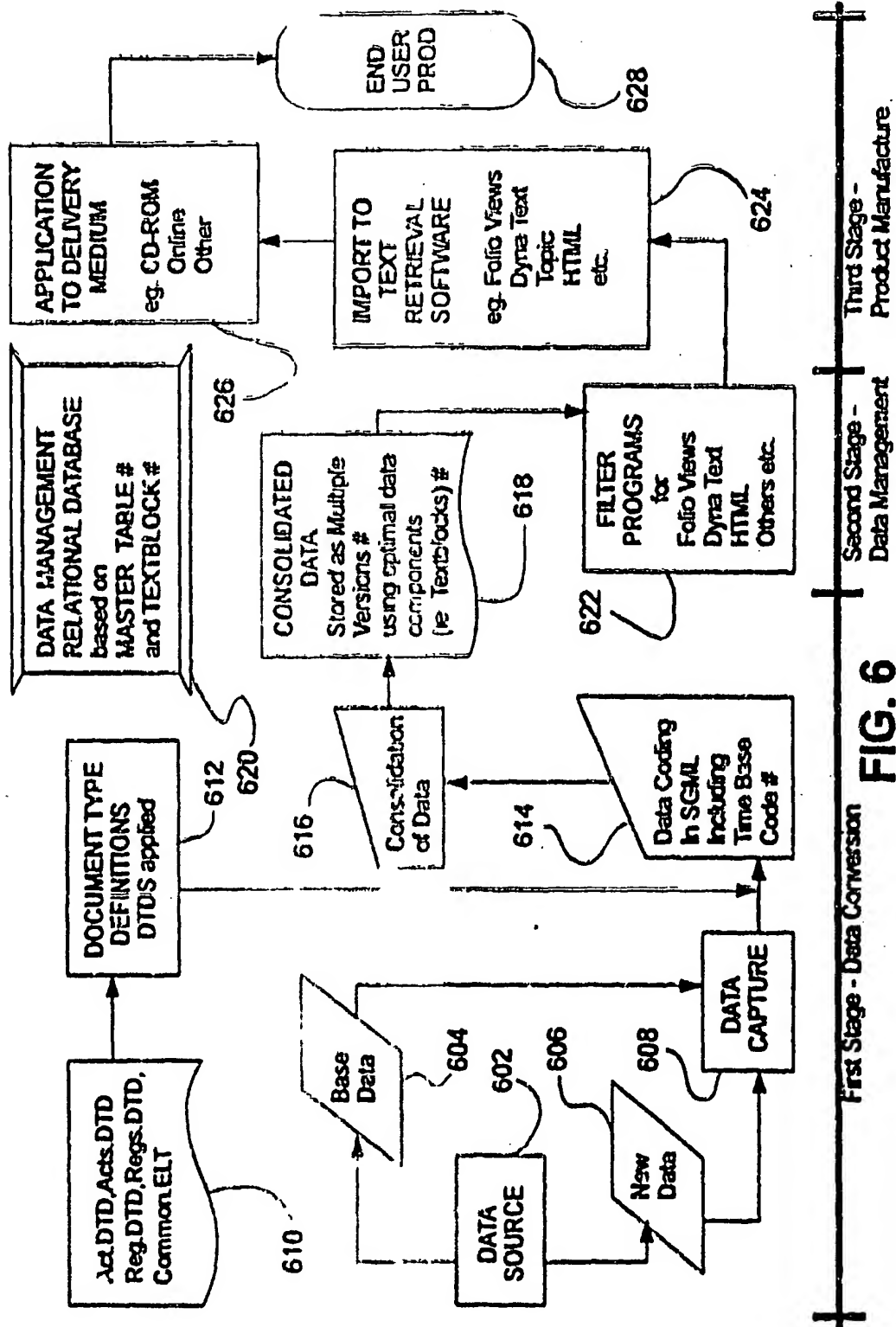


FIG. 6

SUBSTITUTE SHEET (RULE 26)

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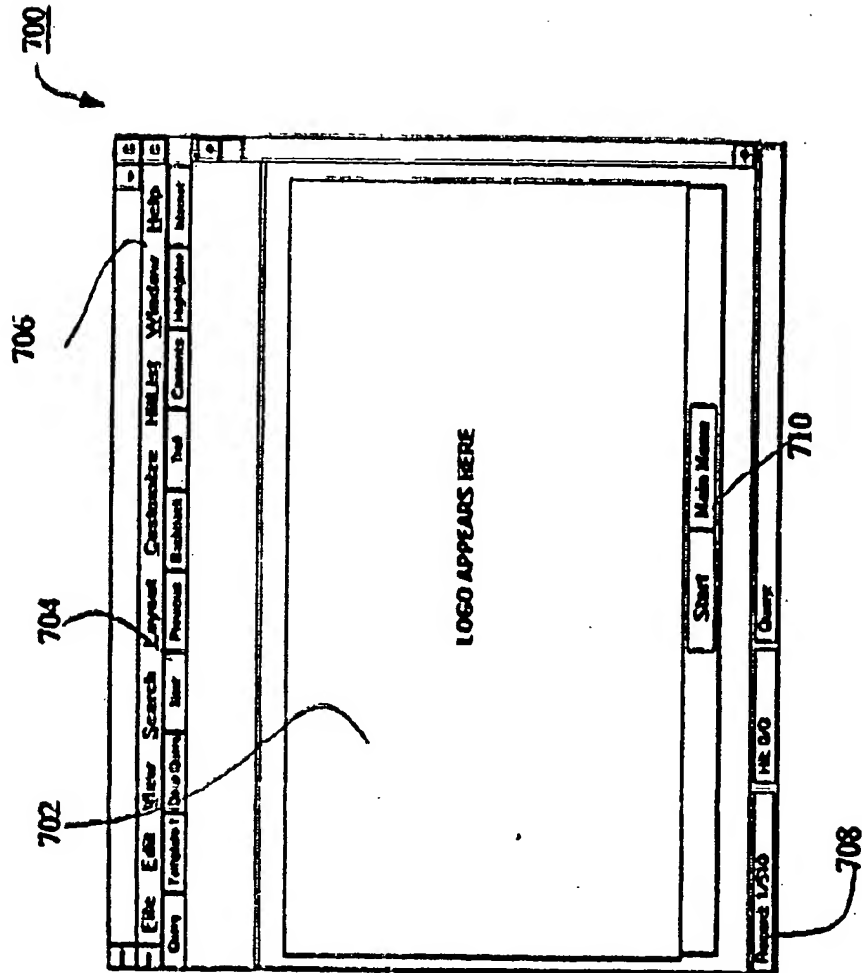


Fig. 7



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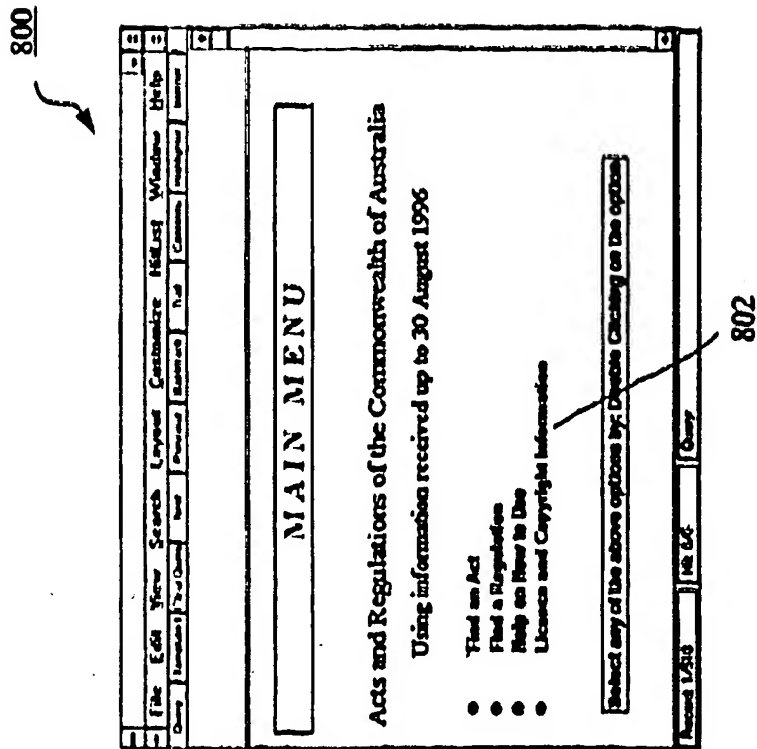


Fig. 8

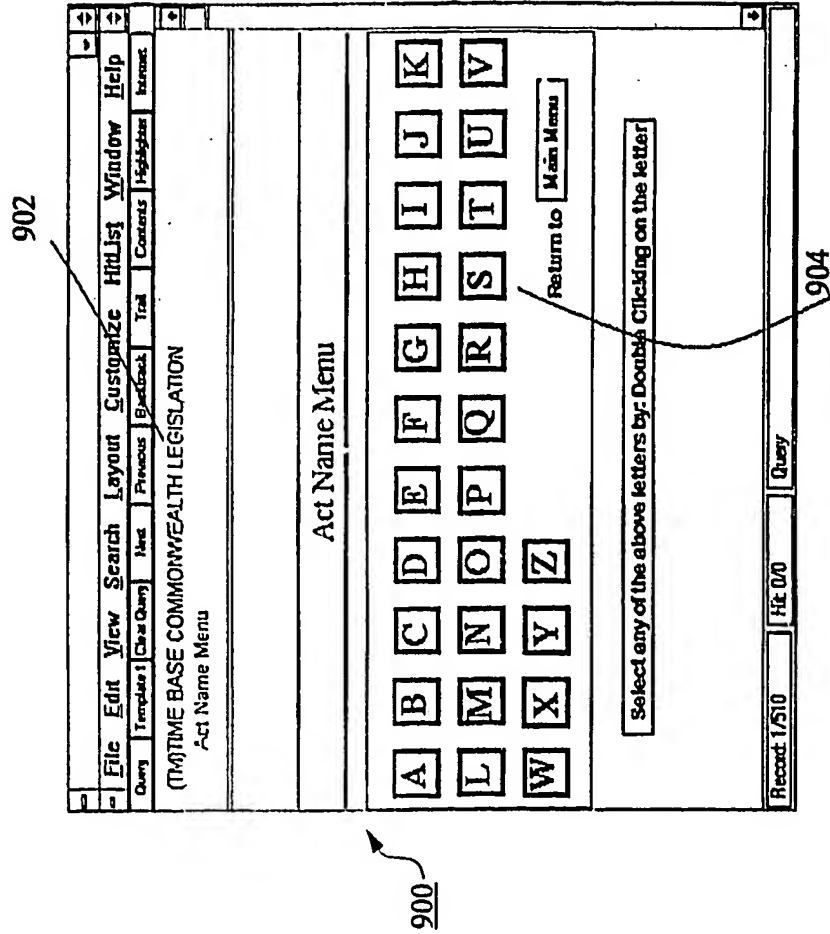


Fig. 9

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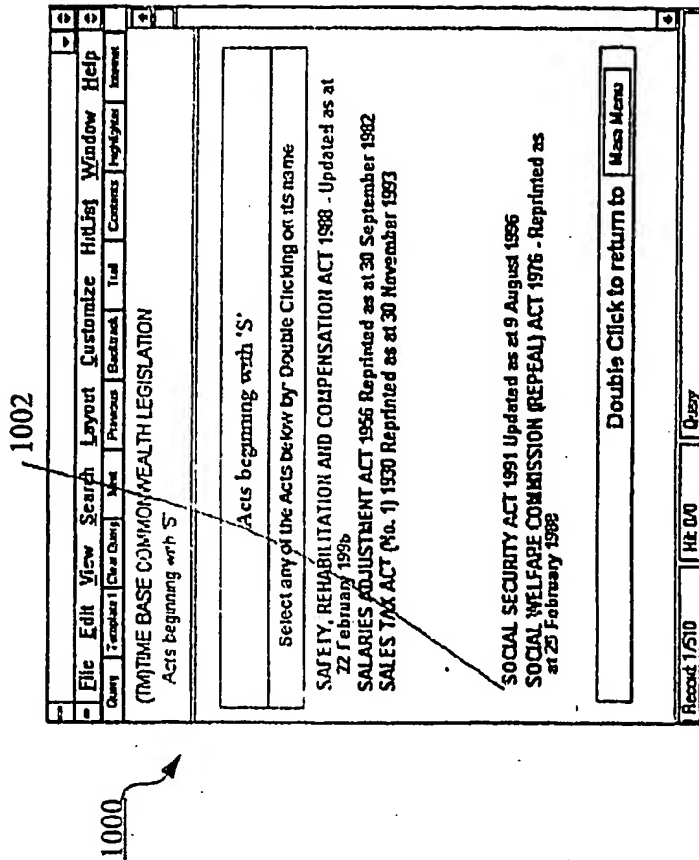


Fig 10

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1100

File Edit View Search Layout Customize HitList Window Help

Query Template! Clear Query Next Previous Backtrack Trail Contents Highlighter Internet

(M)TIME BASE COMMONWEALTH LEGISLATION Sample Social Security Act 1991  
SOCIAL SECURITY ACT 1991 Updated as at 9 August 1996

**SOCIAL SECURITY ACT 1991**  
**Updated as at 9 August 1996**

Table of Provisions Table of Amendments Main Menu

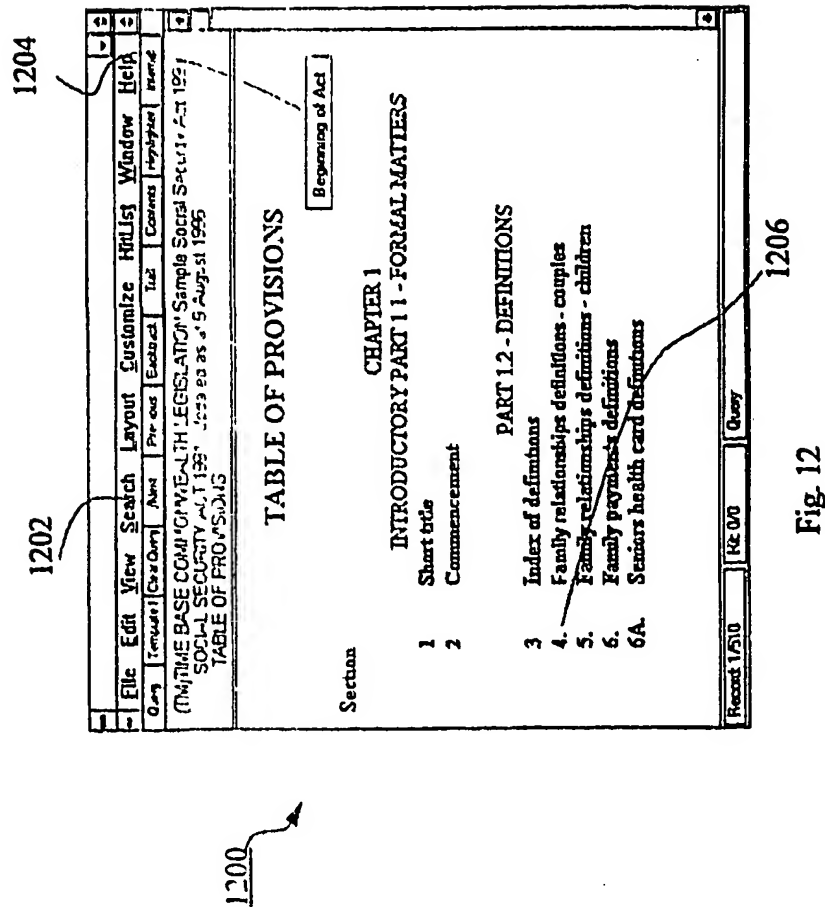
Updated as at 9 August 1996  
Incorporating all amendments in force as at 20 September 1996  
The Social Security Act 1991 as shown in this reprint comprises Act No. 46, 1991  
amended as indicated in the Tables below

**Table of Acts**

Act Number and year	Date of assent	Date of commencement	Application saving or transitional provisions
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Fig. 11

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- 11/15 -

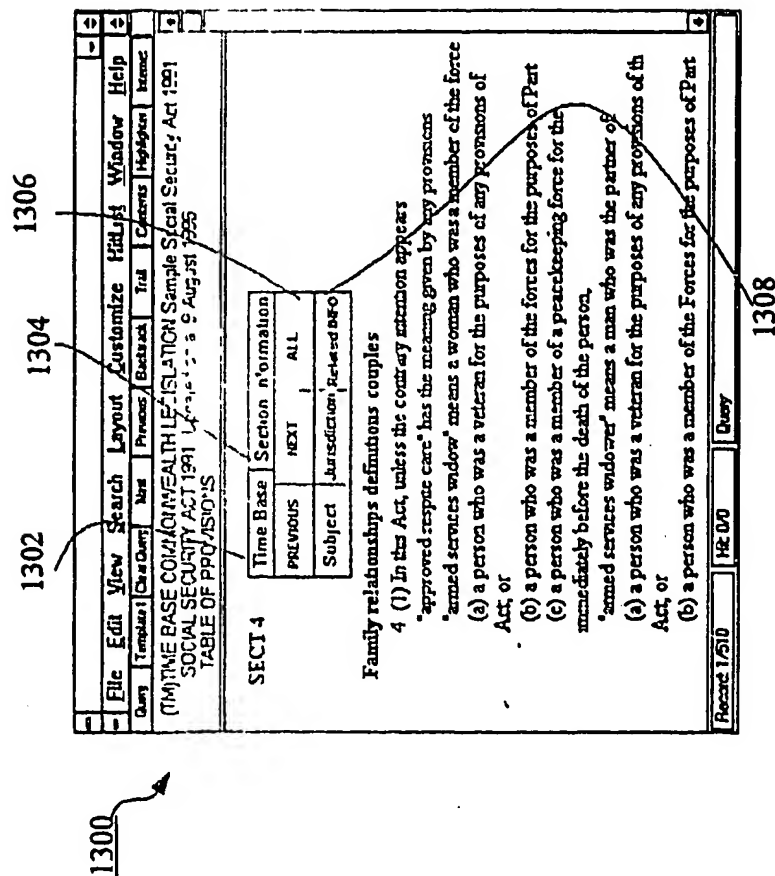


Fig. 13

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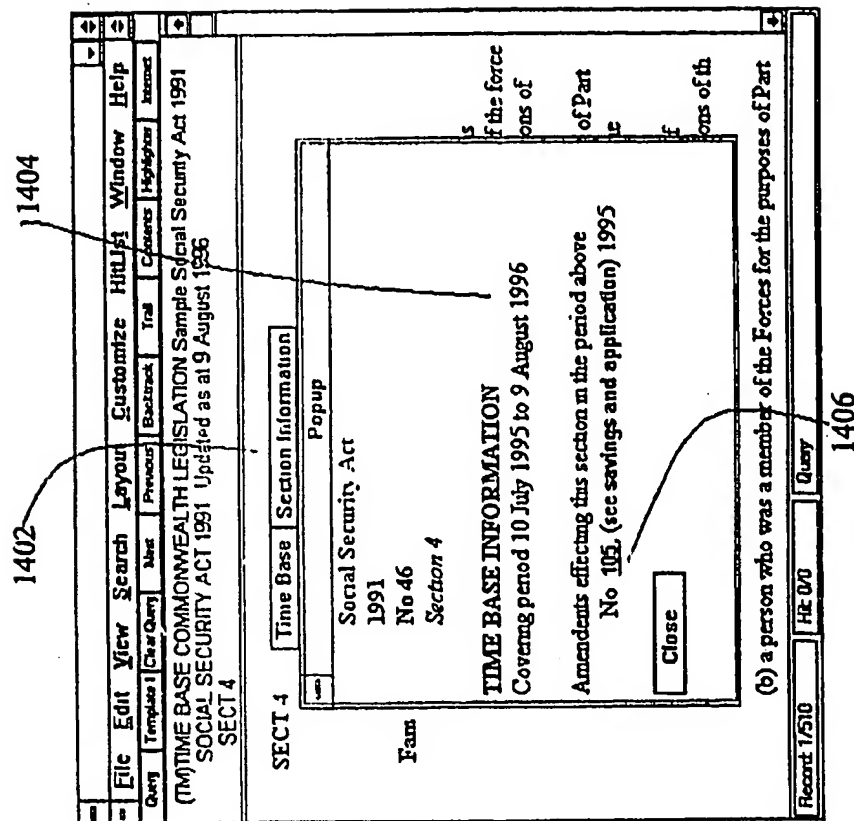


Fig. 14

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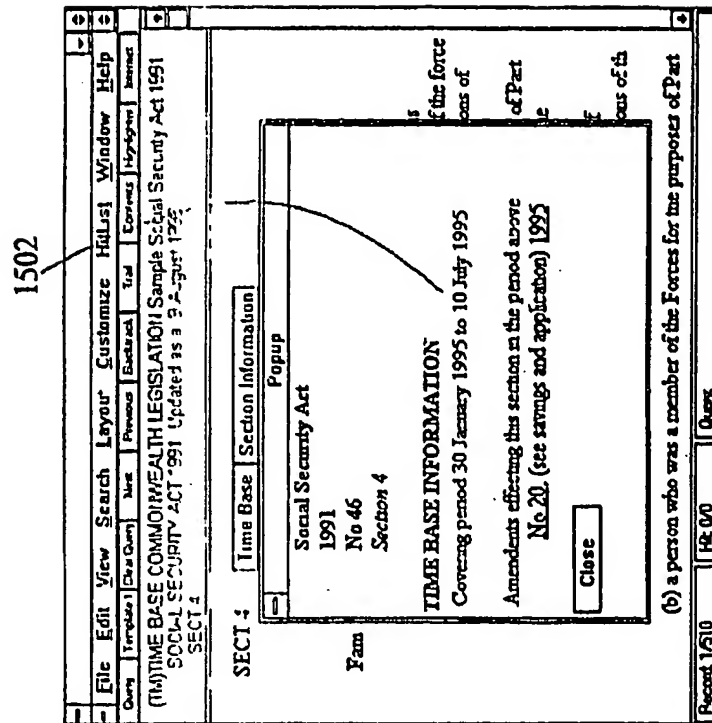


Fig 15



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1600

1602

Time Base Legislation Search

Type in your search

NAME OF ACT OR REGULATION

social security act 1991

Optional Section Number or Name

section 4

Optional Search Act, Regulation or Section

family couples

Optional Date

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Records With Hits - 2

[Level Heading 1 social security act 1991 - 1]  
[Group Heading 2 section 4] 2  
family 3

Record 1/510 Hit 0/0 Query

OK Cancel

Fig. 16

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1700

1702

File Edit View Search Layout Customize HitList Window Help

Time Base Case Search

Type in your search.

SUBJECT

social security secretary

JURISDICTION

commonwealth

CLASSIFICATION

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Level Heading 1	social security ad 1991 - 1	Group Heading 2	section 1 - 2	Level - 3

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Fig. 17